

606 A5C1

v.40 c.1

INDEX

A.

- "A Method of Determining Storm-Water Run-Off," presented and discussed, 592.
- ABRAHAM, PERCY LYONS.—Elected an Associate Member, 542.
- Accessions to the Library, 23, 138, 190, 245, 301, 431, 552, 603, 665, 719.
- ADAMS, MILTON JEWELL.—Elected an Associate Member, 3.
- ADDIS, WILLIAM GEORGE.—Elected a Member, 541.
- AHRENS, ALBERT RICHARD NELSON.—Elected a Junior, 361.
- AILES, EDWARD HOFFMAN.—Elected an Associate, 74.
- "Air Resistances to Trains in Tube Tunnels," awarded the Norman Medal, 5, 70, 109.
- ALBERT, FREDERICK WILHELM.—Elected an Associate Member, 180.
- ALBREE, RALPH.—Death announced, 359, 396.
- ALDEN, LANGFORD TAYLOR.—Elected an Associate Member, 542.
- ALEXANDER, ALBERT MANGUM.—Elected a Junior, 543.
- ALEXANDER, EDWARD PORTER.—Elected a Junior, 653.
- ALEXANDER, HENRY DAVID.—Elected a Member, 74.
- ALEXANDER, KAY.—Transferred to Grade of Member, 544.
- ALGER, RALPH TISDALE.—Elected a Junior, 361.
- ALLAIRE, ALEXANDER.—Elected a Member, 232.
- ALLEN, CARLTON.—Elected an Associate Member, 360.
- ALLEN, COVINGTON KENNEDY.—Elected an Associate Member, 360.
- ALLEN, KENNETH.—Discussion by, 592; Paper by, 651.
- ALLEN, THOMAS WARREN.—Elected a Member, 74.
- ALLIN, RAY LESTER.—Elected a Junior, 543.
- ALLNER, FREDERICK ABELS.—Elected an Associate Member, 706.

ALVORD.

- ALVORD, JOHN W.—Paper by, 1, 705.
- AMADON, FREDERICK WEBBER.—Transferred to Grade of Associate Member, 544.
- Amendments to Constitution.—Report of Committee on, 66, 79; Text of, 66, 67, 176; Discussion on, 66, 67, 80; Appointment of Tellers to Canvass Ballots on, 176; Report of Tellers Appointed to Canvass Ballots on, 179.
- American Road Congress.—Appointment of Delegates to, 595.
- "An Investigation of Sand-Clay Mixtures for Road Surfacing," presented and discussed, 180.
- ANCONA, JOHN FLINN.—Elected an Associate Member, 289.
- ANDERSON, EMANUEL.—Elected a Member, 592.
- ANDERSON, JUSTIN KENDERDINE.—Elected a Member, 541.
- ANDERSON, WALTER SEIGFREID.—Elected a Junior, 707.
- Announcements, 6, 132, 183, 239, 293, 423, 546, 596, 656, 710.
- Annual Convention, 46th.—Time and Place Announced, 77, 132; Appointment of Committees of Arrangement for, 77, 132; Minutes of Meetings of, 357, 359, 368, 372; Excursions and Entertainments at, 416; Attendance at, 418.
- Annual Meeting.—Minutes of, 65, 78; Minutes of Special Meetings for Topical Discussion on Road Construction and Maintenance Held in Connection with, 72, 73; Excursions and Entertainments at, 118; Attendance at, 118; Committee of Arrangements for, 710.
- ANTHONY, HORACE FRANCIS.—Elected an Associate Member, 289.
- ARANGO, RICARDO MANUEL.—Death announced, 76.
- Arbitration Board.—Communication Relative to the Appointment of, 71, 109; Report of Board of Direction Relative to the Appointment of, 71, 111.

ARMSTRONG.

- ARMSTRONG, GEORGE SIMPSON. — Transferred to Grade of Associate Member, 181.
- ARMSTRONG, HARRY ARTHUR.—Elected a Junior, 180.
- ARTHUR, HOWARD ELMER.—Death announced, 291.
- ASHLEY, CARL.—Elected an Associate Member, 706.
- ASHTON, DAVID HAWLEY.—Elected an Associate Member, 542.
- ATWATER, HUNTINGTON CLARK.—Elected an Associate Member, 3.
- AYER, JOHN.—Elected an Associate Member, 593.
- AYRES, QUINCY CLAUDE.—Elected a Junior, 75.
- BAILEY, THOMAS SHERWOOD.—Transferred to Grade of Associate Member, 76.
- BAILHACHE, JOHN GOODIN.—Elected a Junior, 180.
- BAKER, GEORGE EVERETT.—Elected an Associate Member, 542.
- BAKER, JOHN JOSEPH.—Elected an Associate Member, 180.
- BALDWIN, A. S.—On Special Committee to Report on Stresses in Railroad Track, 2, 6, 71, 109.
- BALDWIN, FRANCIS NEAL.—Elected an Associate Member, 232.
- BALL, LAURENCE ADAMS.—Transferred to Grade of Member, 181.
- Baltimore Association of Members of the American Society of Civil Engineers. — Constitution Approved, 545.
- BANCK, WILLIAM HERBERT DOUGHTY. —Elected a Junior, 361.
- BANDEL, JOHN MARTIN.—Elected an Associate Member, 652.
- BANDY, EDWARD LEE.—Elected an Associate Member, 360.
- BARBER, EARL HUNTINGTON.—Elected a Member, 180.
- BARCLAY, ARTHUR JACKSON.—Elected a Junior, 361.
- BARNEY, W. J.—Discussion by, 356.
- BARTON, CALVIN LEWIS.—Transferred to Grade of Member, 290.
- BARZAGHI, ARTHUR JEROME.—Elected a Junior, 707.
- BATES, ONWARD.—On Committee on Alfred Noble Memorial, 364; On Committee to Prepare Memoir of Alfred Noble, 365.

BAUER.

- BAUER, JOHN, JR.—Elected a Junior, 653.
- BAUM, FRANK GEORGE.—Transferred to Grade of Member, 594.
- BAYLEY, EDGAR ALCANDER.—Elected a Member, 2.
- BAYLIS, ARTHUR RAYMOND.—Transferred to Grade of Member, 75.
- BEAL, FRANK LOUIS.—Elected a Junior, 543.
- BEAN, PAUL JONES.—Transferred to Grade of Associate Member, 4.
- BEAN, PAUL LEONARD.—Elected an Associate Member, 542.
- BEATY, R. E.—Discussion by, 73.
- BECK, EDWARD ADAM.—Elected an Associate Member, 289.
- BECKJORD, JESSEE GARNETT.—Elected an Associate Member, 3.
- BECTION, JOHN LELAND.—Elected an Associate Member, 706.
- BEESON, ALEXANDER CONN.—Transferred to Grade of Member, 544.
- BEGGS, GEORGE ERLE.—Transferred to Grade of Associate Member, 544.
- BELKNAP, FRANCIS WHEELWRIGHT.—Transferred to Grade of Member, 361.
- BELKNAP, WILLIAM RICHARDSON.—Death announced, 592.
- BELLAMY, HERBERT E.—Discussion by, 539.
- BELLOWS, SIDNEY RAYMOND.—Transferred to Grade of Associate Member, 544.
- BENDEL, JACOB.—Elected a Junior, 180.
- BENHAM, WEBSTER LANCE.—Transferred to Grade of Member, 75.
- BENNETT, CHARLES JOSEPH.—Discussion by, 72; Elected a Member, 74.
- BENSON, CHARLES GREENWOOD. —Elected an Associate Member, 289.
- BERG, JOHN.—Elected an Associate Member, 593.
- BERGENDAHL, GUSTAV STORM.—Transferred to Grade of Member, 233.
- BERRY, J. B.—On Special Committee to Report on Stresses in Railroad Track, 2, 6, 71, 109; Correspondence by, Relative to Proposed Code of Ethics, 358, 375.
- BERTHE, LUCIUS TULLIUS.—Elected an Associate Member, 289.

BIGGS.

- BIGGS, GEORGE WASHINGTON, JR.—Elected a Member, 288.
- BILLWILLER, ERNEST OSWALD. — Transferred to Grade of Associate Member, 708.
- BILYEU, CHARLES SMITH. — Transferred to Grade of Associate Member, 4.
- BISHOP, GUY HERSEY.—Elected a Junior, 707.
- BISSELL, CLINTON TALCOTT.—Transferred to Grade of Member, 361.
- BLACK, RALPH PETERS.—Transferred to Grade of Member, 233.
- BLACKMAN, JOHN WILLIAM BERNARD. —Elected a Member, 2.
- BLAINE, ELMER STYNER.—Elected a Junior, 290.
- BLAIR, ALEXANDER.—Discussion by, 73.
- BLAIR, MCCREA PARKER.—Transferred to Grade of Member, 290.
- BLANCHARD, ARTHUR CLARENCE DOUGLAS.—Transferred to Grade of Member, 361.
- BLANCHARD, ARTHUR H.—Discussion by, 73, 180.
- Board of Direction.—Report of, 11, 65, 78; Report of, Relative to Appointment of an Arbitration Board, 71, 111; Resolution of, Relative to Payment of Mileage of Directors Attending Annual Meetings, 77; Report of, Relative to Payment of Mileage of Directors Attending Annual Conventions, 235; Resolutions of, Relative to Enlarging the Scope and Work of Special Committees, 235; Resolution of, Relative to Use of Society's Mailing List, 236; Resolutions of, Relative to Election of Nominating Committee, 236; Recommendation of, Relative to Proposed Code of Ethics, 236, 357, 378; Report of, Relative to Payment of Expenses of Special Committees, 237; Resolution of, Relative to Appropriation for Special Committees, 292; Resolution of, Relative to Appointment of Sub-Committee to Consider and Report on Work of Special Committees, 292; Report of, Relative to Proposed Alfred Noble Memorial, 363; Resolu-

BOARDMAN.

- tion of, On Death of Alfred Noble, 364; Resolution of, On Death of Emil Gerber, 364; Resolutions of, Relative to the Duties of Consulting Engineers, 365; Resolutions of, Relative to Increasing the Number of Geographical Districts, 366; Resolution of, On Mileage Allowance of Presidents of Local Associations at New York Meeting, 709.
- BOARDMAN, HAROLD SHERBURNE.—Transferred to Grade of Member, 4.
- BODYCOMB, WALTER CHRISTMAS.—Elected an Associate Member, 542.
- BOERS, OTTO WILLIAM.—Elected an Associate Member, 74.
- BOES, FRANK C.—Discussion by, 1.
- BOLANO, EMANUEL LEO.—Elected a Junior, 290.
- BOLGER, EDWIN GIBSON.—Elected a Junior, 290.
- BOLIN, HARRY WILLIAM.—Elected a Junior, 290.
- BONTECOU, DANIEL.—Nominated as Vice-President, 596.
- BOORMAN, T. HUGH.—Discussion by, 73.
- BOOZ, HORACE COREY.—Transferred to Grade of Member, 75.
- BORNET, VAUGHN TAYLOR.—Elected an Associate Member, 652.
- BOUCHER, W. J.—Discussion by, 592.
- BOUILLON, ARTHUR MAXIMILIEN.—Transferred to Grade of Member, 75.
- BOURNE, THOMAS JOHNSTONE.—Transferred to Grade of Member, 361.
- BOWEN, CHARLES KENNARD.—Elected a Member, 541.
- BOWEN, S. W.—Paper by, 705.
- BOWEN, WALTER COX.—Elected a Junior, 3.
- BOWERS, NATHAN ABBOTT.—Elected an Associate, 289.
- BOWIE, C. P.—Discussion by, 592.
- BOWLER, FRANK COLBURN.—Transferred to Grade of Member, 4.
- BOWMAN, A. L.—Presents Progress Report of Special Committee on Steel Columns and Struts, 70, 103.
- BOYD, WALTER LACY.—Elected an Associate Member, 3.
- BOYNTON, ROBERT HAMMOND.—Elected a Junior, 290.

BRADSTREET.

- BRADSTREET, HERBERT NEAL.—Elected a Junior, 593.
- BRANCH, T. P.—Appointed a Delegate to American Road Congress, 595.
- BREIDERT, HENRY CYRILLE.—Elected a Member, 541.
- BREMNER, G. H.—On Special Committee to Report on Stresses in Railroad Track, 2, 6, 71, 109.
- BRIGGS, JOSIAH ACKERMAN, JR.—Elected a Member, 74.
- BRIGGS, ROBERT WESLEY.—Elected a Junior, 653.
- BRINK, LAWRENCE CALVIN.—Death announced, 291.
- BRODIE, HUGH, C. G. WRENTMORE, and C. O. CAREY.—Paper by, 231.
- BROOKE, MARK.—Discussion by, 73.
- BROOKS, DAVID WALKER.—Transferred to Grade of Associate Member, 4.
- BROOKS, JOHN NIXON.—Transferred to Grade of Associate Member, 233.
- BROWN, ARCHIBALD ALEXANDER.—Elected an Associate Member, 542.
- BROWN, CHARLES BARTO.—Elected an Associate Member, 74.
- BROWNE, JAMES GIBBONS.—Elected an Associate Member, 289.
- BROWNELL, JAMES PARKER.—Elected a Member, 359.
- BRUNNER, JOHN.—On Special Committee to Report on Stresses in Railroad Track, 2, 6, 71, 109.
- BRUSH, W. W.—Discussion by, 592.
- BRYAN, CLARK ALBERT.—Elected an Associate Member, 74.
- BUCHANAN, GEORGE ROBERT URE.—Elected an Associate Member, 542.
- BUCHANAN, NATHAN BOOKER.—Transferred to Grade of Associate Member, 233.
- BUEL, A. W.—Discussion by, 231, 288.
- BUELL, WILLIAM ELIJAH, JR.—Elected a Junior, 361.
- BUERGER, CHARLES BERNARD.—Transferred to Grade of Member, 233; Paper by, 592.
- BUETTNER, OTTO GEORGE HENRY.—Transferred to Grade of Associate Member, 544.

BUFFINTON.

- BUFFINTON, BENJAMIN THOMAS.—Death announced, 541.
- BULLEN, JACOB THOMPSON.—Elected a Member, 232.
- BUMANN, CECIL SPENCER.—Elected an Associate Member, 3.
- BURNS, EDWARD COOK.—Death announced, 706.
- BURTON, W. J.—On Special Committee to Report on Stresses in Railroad Track, 2, 6, 71, 109.
- BUSH, LINCOLN.—On Finance Committee, 76; Nominated for Treasurer, 597.
- BUSHELL, ARTHUR WILLIAM.—Transferred to Grade of Associate Member, 594.
- BUSHNELL, HOWARD BLAINE.—Elected an Associate Member, 289.
- BUSHWAY, WALTER BENJAMIN.—Transferred to Grade of Associate Member, 290.
- BUTLER, M. J.—Discussion by, 287.
- BUTTERWORTH, ASA CLAIR.—Elected an Associate Member, 289.
- BYERS, M. L.—Discussion by, 234.
- BYLLESBY, H. M.—Retirement of, As Member of Special Committee on Valuation of Public Utilities, Announced, 358, 366, 396.
- CAIN, WILLIAM.—On Publication Committee, 76.
- "California Practice in Highway Engineering," presented, 355.
- CAMERON, JOHN BOBBS.—Transferred to Grade of Member, 362.
- CAMPBELL, CHARLES CECIL.—Elected a Junior, 3.
- CAMPBELL, DUNCAN HUGH.—Death announced, 288.
- CAMPBELL, GEORGE EDWARD.—Elected a Member, 288.
- CAMPBELL, PAUL CALDWELL.—Elected a Junior, 290.
- CAMPBELL, WILLIAM COOPER.—Elected an Associate Member, 706.
- CANTWELL, HERBERT HERLUIN.—Transferred to Grade of Associate Member, 76.
- CAREY, C. O., C. G. WRENTMORE, and HUGH BRODIE.—Paper by, 231.
- CARLISLE, ORVILLE BERTON.—Elected an Associate Member, 180.
- CARPENTER, A. W.—Discussion by, 2.

CARPENTER.

- CARPENTER, J. C.—Transferred to Grade of Associate Member, 290.
- CARPENTER, JAMES WILHELM.—Transferred to Grade of Associate Member, 362.
- CARPENTER, SINCLAIR ERNEST.—Elected a Junior, 290.
- CARSON, W. W.—Appointed a Delegate to American Road Congress, 595.
- CARTER, CLARENCE REED.—Elected a Junior, 75.
- CATELL, W. A.—Address by, Relative to International Engineering Congress, 359, 399.
- CHALLIES, JOHN BOW.—Elected an Associate Member, 542.
- CHAMBERLIN, EDWARD CARTER.—Elected an Associate Member, 74.
- CHAMBERLIN, JOHN ROSS.—Elected an Associate Member, 289.
- CHARLES, LA VERN.—Transferred to Grade of Member, 233.
- CHESLEY, FRANK EPHRAIM.—Elected an Associate Member, 3.
- CHOUNARD, WILLIAM JAMES.—Elected a Junior, 75.
- CHRISTOPHERS, REGINALD GILLON.—Elected an Associate Member, 360.
- CHURCH, ELIHU CUNYNGHAM.—Transferred to Grade of Associate Member, 362.
- CHURCH, IRVING P.—Discussion by, 706.
- CHURCHILL, CHARLES S.—On Special Committee to Report on Stresses in Railroad Track, 2, 6, 71, 109; On Special Committee on Valuation of Public Utilities, 358, 366, 396.
- "Cinder Concrete Floors," presented and discussed, 288.
- Civil Engineers, Special Committee to Investigate Conditions of Employment of, and Compensation of.—Progress Report of, 70, 103; Resolution Relative to Progress Report of, 70, 103; Minutes of Meeting of, 662.
- CLAFLIN, W. B.—Discussion by, 288.
- CLARK, HOWARD FOSTER.—Elected a Junior, 707.
- CLARK, JOHN JAMES.—Transferred to Grade of Associate Member, 708.

CLARKE.

- CLARKE, ELWYN LORENZO.—Transferred to Grade of Member, 290.
- CLARKSON, CHARLES DANA SAYRES.—Elected an Associate Member, 232.
- CLARKSON, ROBERT COOKE.—Death announced, 4.
- CLASS, CHARLES FRANK.—Transferred to Grade of Member, 594.
- CLAYTON, HENRY HELM.—Death announced, 2.
- CLEMENTS, MELVILLE FISK.—Elected a Member, 541.
- CLOSSON, WILLIAM GIDEON.—Elected an Associate Member, 289.
- COBURN, H. L.—Discussion by, 175.
- CODDINGTON, SAMUEL CECIL.—Elected a Member, 2.
- Code of Ethics.—Text of, and Recommendation of Board of Direction Relative to, 236, 357, 378; Correspondence Relative to, 358, 372; Discussion on, 378; Motion Relative to Adoption of, 358, 389; Appointment of Tellers to Canvass Ballot on, 540; Report of Tellers Appointed to Canvass Ballot on, 540.
- COHEN, J. X.—Discussion by, 651.
- COHEN, MENDES.—On Committee of Arrangements for Annual Convention, 132.
- COLE, EMMERT LUTHER.—Elected an Associate Member, 3.
- COLEMAN, JOHN F.—Nominated for Director, 597.
- COLEMAN, LESTER LYMAN.—Transferred to Grade of Associate Member, 233.
- COLLIER, WILLIAM NEVILLE.—Transferred to Grade of Member, 362.
- COLLINS, JERRY.—Elected an Associate Member, 360.
- Colorado Association of Members of the American Society of Civil Engineers.—Abstract of Minutes of Meetings of, 134, 186, 241, 295, 426, 599, 713.
- COLUMBIA, CURTIS FIELDS.—Elected a Junior, 75.
- COMBER, WILLIAM GEORGE.—Elected a Member, 359.
- Committee of Arrangements for Annual Meeting.—Appointment of, 710.
- Committee on Alfred Noble Memorial.—Appointment of, 364.

COMMITTEE.

- Committee on Bituminous Materials for Road Construction. *See* Committee to Report on Materials for Road Construction.
- Committee on Concrete and Reinforced Concrete.—Progress Report of, 70, 105; Resolution Relative to Progress Report of, 70, 106.
- Committee on Engineering Education.—Progress Report of, 70, 106.
- Committee on Finance.—Appointment of, 76.
- Committee on Floods and Flood Prevention.—Progress Report of, 359, 397.
- Committee on Library.—Appointment of, 76.
- Committee on Nominations.—Report of Committee on Proposed Amendments to the Constitution Relative to, 66, 79; Text of Proposed Amendments Relative to, 67; Discussion on Proposed Amendments Relative to, 67, 80; Appointment of, 69, 95; Resolutions of Board of Direction Relative to Election of, 236; Motion Relative to Secret Ballot for, 358, 391; Discussion on Motion Relative to Secret Ballot for, 391; Presents List of Nominees, 596; Appointment of Tellers to Canvass Preliminary and Final Suggestions for, 655; Report of Tellers Appointed to Canvass Preliminary Suggestions for, 655.
- Committee on Proposed Amendments to the Constitution.—Report of, 66, 79; Discussion on Report of, 66, 67, 80.
- Committee on Publications.—Appointment of, 76; Report of, Relative to Cost of, and Contract for, Printing, 236.
- Committee on Steel Columns and Struts.—Progress Report of, 70, 103.
- Committee on Valuation of Public Utilities.—Progress Report of, 69, 98; Resolutions Relative to Progress Report of, 69, 98; Minutes of Special Meetings for Discussion of Report of, 181, 234.

COMMITTEE.

- Committee to Codify Present Practice on the Bearing Value of Soils for Foundations, etc.—Progress Report of, 70, 104.
- Committee to Investigate Conditions of Employment of, and Compensation of, Civil Engineers.—Progress Report of, 70, 103; Resolution Relative to Progress Report of, 70, 103; Minutes of Meeting of, 662.
- Committee to Prepare Memoir of Alfred Noble.—Appointment of, 365.
- Committee to Recommend the Award of Prizes.—Report of, 5, 70, 108.
- Committee to Report on Materials for Road Construction.—Additional Members Appointed, 5, 77; Progress Report of, 69, 101; Resolutions Relative to Progress Report of, 69, 101; Change of Title Announced, 365; Special Meeting Authorized for Discussion of Report of, 595.
- Committee to Report on Stresses in Railroad Track.—Appointment of, 2, 6, 71, 109.
- Committees of Arrangements for Annual Convention.—Appointment of, 77, 132.
- Committees, Special.—Resolutions of Board of Direction Relative to Enlarging Scope and Work of, 235; Report of Board of Direction, Relative to Payment of Expenses of, 237; Resolution of Board of Direction Relative to Appropriation for, 292; Resolution of Board of Direction Relative to Appointment of Sub-Committee to Consider and Report on Work of, 292; Minutes of Meetings of, 181, 234, 662.
- COMPTON, ALFRED G.—Death announced, 2.
- COMPTON, ARTHUR MANDEVILLE.—Elected an Associate Member, 232.
- COMPTON, R. KEITH.—Address by, 359, 401.
- Concrete and Reinforced Concrete, Special Committee on.—Progress Report of, 70, 105; Resolution Relative to Progress Report of, 70, 106.

CONN.

- CONN, CHARLES FRANCIS.—Elected a Member, 592.
- CONNELL, WILLIAM H.—Discussion by, 72.
- CONNER, ARTHUR WATSON.—Transferred to Grade of Member, 594.
- CONNER, CARLTON NUDD.—Elected an Associate Member, 360.
- CONNOLLY, ALLEN HOWARD.—Elected a Junior, 593.
- Constitution, Proposed Amendments to.—Report of Committee on, 66, 79; Text of, 66, 67, 176; Discussion on, 66, 67, 80; Appointment of Tellers to Canvass Ballots on, 176; Report of Tellers Appointed to Canvass Ballots on, 179.
- "Construction of the Morena Rock Fill Dam, San Diego County, California," awarded the James Laurie Prize, 5, 71, 109.
- Consulting Engineers.—Resolutions of Board of Direction Relative to Duties of, 365.
- CONZELMAN, JOHN EDWARD.—Transferred to Grade of Member, 594.
- COOK, HORACE ARTHUR.—Death announced, 359, 397.
- COOLEY, MORTIMER E.—Elected a Director, 72, 116; On Library Committee, 76.
- COOLEY, ORRIN FULTON.—Elected an Associate Member, 360.
- COOMBS, R. D.—Discussion by, 2, 356, 652.
- COOPER, CLARENCE WINSTON.—Elected a Junior, 181.
- COOPER, DAVID REGINALD.—Transferred to Grade of Member, 707.
- COOPER, DEXTER PARSHALL.—Elected an Associate Member, 232.
- COOPER, HUGH L.—Discussion by, 652.
- COPELAND, ROBERT MORRIS.—Elected a Junior, 707.
- CORBIN, HORACE KELLOGG.—Elected a Junior, 361.
- CORLETT, WILLIAM GREENFIELD.—Elected a Junior, 707.
- CORNELL, CHARLES BROWN.—Elected an Associate Member, 542.
- CORNS, HARRY COOPER.—Elected a Member, 359.
- CORTHELL, E. L.—Discussion by, 355.
- CORY, H. T.—Paper by, 652.
- COSGROVE, KARL MCCORTLE.—Elected a Junior, 543.

COTTON.

- COTTON, JOSEPH P.—Death announced, 4.
- COUCHOT, GEORGE JOHN.—Death announced, 541.
- COY, BURGIS G.—Awarded the Thomas Fitch Rowland Prize, 5, 70, 109.
- CRANE, ERNEST BUCHANAN.—Elected an Associate Member, 542.
- CRAWFORD, WILLIAM.—Death announced, 652.
- CRAWFORD, WILLIAM HARRISON.—Elected an Associate Member, 74.
- CREHORE, W. W.—Discussion by, 182, 705.
- CRESSON, B. F., JR.—Awarded the J. James R. Croes Medal, 5, 70, 109.
- CRITCHLOW, HOWARD THOMPSON.—Transferred to Grade of Associate Member, 708.
- CROCKER, FRED WILBUR.—Elected a Junior, 707.
- CROCKER, HERBERT S.—Nominated as Director, 597.
- Croes Medal.—Award of, 5, 70, 109; Description of, 184.
- CROSBY, HORACE.—Death announced, 541.
- CROSBY, W. W.—Presents Progress Report of Special Committee to Report on Materials for Road Construction, 69, 101; Motion by, Relative to Progress Report of Committee to Report on Materials for Road Construction, 69, 101; Presides at Meeting, 72, 73; Discussion by, 72, 73; On Committee of Arrangements for Annual Convention, 132; Appointed a Delegate to American Road Congress, 595.
- CROWNOVER, CHARLES ELMER.—Elected a Member, 359.
- CRUM, ROY WINCHESTER.—Elected an Associate Member, 3.
- CULGIN, GUY WHITMORE.—Transferred to Grade of Member, 75.
- CULLEY, MASSENA L.—Correspondence by, Relative to Proposed Code of Ethics, 358, 375.
- CUMMIN, GAYLORD CHURCH.—Elected an Associate Member, 289.
- CUMMINGS, ROBERT A.—Presents Progress Report of Special Committee to Codify Present Practice on the Bearing Value of Soils for Foundations, etc., 70, 104; Appointed a Director, 358, 396.

CUNNINGHAM.

- CUNNINGHAM, JOHN WILBUR.—Transferred to Grade of Associate Member, 654.
- CUNNINGHAM, MAX LEE.—Elected an Associate Member, 289.
- Current Engineering Literature, 35, 147, 205, 259, 322, 473, 560, 621, 680, 733.
- CURRIER, CLARE HARMON.—Elected an Associate Member, 232.
- CURTIS, BENJAMIN JOHN.—Elected a Junior, 543.
- CUSHING, W. C.—On Special Committee to Report on Stresses in Railroad Track, 2, 6, 71, 109.
- CUSHMAN, ALLERTON S.—Discussion by, 2.
- CUSHMAN, WILLIAM H.—Discussion by, 175.
- CUTLER, LEON GEORGE.—Transferred to Grade of Associate Member, 4.
- DAAE, HANS ANDREAS.—Transferred to Grade of Member, 362.
- DAKIN, ROBERT EDWARD.—Elected a Junior, 707.
- DALES, OLIVER DEAN.—Elected a Member, 359.
- DALY, ALBERT PETER VINCENT.—Elected a Junior, 3.
- DALY, PETER FRANCIS.—Elected an Associate Member, 542.
- DANA, FOREST CHARLES.—Elected a Junior, 361.
- DANA, RICHARD T.—Discussion by, 706.
- DARVILLE, MERTON ARTHUR.—Elected a Junior, 75.
- DAVIES, JOHN V.—Awarded the Norman Medal, 5, 70, 109; Discussion by, 591; Nominated as Director, 597.
- DAVIS, EDWARD CHARLES.—Elected an Associate Member, 542.
- DAVIS, PHILIP CHAPIN.—Death announced, 287.
- DAVIS, ROLAND PARKER.—Transferred to Grade of Associate Member, 594.
- DAVIS, WILLIAM EILERT.—Elected a Junior, 653.
- DAY, WARREN ELLIS.—Transferred to Grade of Associate Member, 708.
- DEAN, ARTHUR W.—Discussion by, 72.
- DEAN, DANIEL ABRAM.—Elected an Associate Member, 3.

DEAN.

- DEAN, WILLIS JOHNSON.—Elected an Associate Member, 232.
- DE CHARMS, RICHARD, JR.—Elected a Junior, 75.
- DE GARMO, ROBERT MAX.—Elected an Associate Member, 652.
- DE GRAFF, CARLTON ROBB.—Elected an Associate Member, 232.
- DE LAY, THEODORE S.—Correspondence by, Relative to Proposed Code of Ethics, 377.
- DE L'EAU, JOHN PEALE.—Elected an Associate Member, 706.
- DENNIS, HARRY WHITING.—Transferred to Grade of Member, 290.
- DERICKSON, DONALD.—Elected an Associate Member, 542.
- DEWITT, RUMLEY.—Elected an Associate Member, 542.
- DIAMANT, ARTHUR H.—Discussion by, 288.
- Directors, Mileage of.—Resolution of Board of Direction Relative to Payment of, Attending Annual Meetings, 77; Report of Board of Direction Relative to Payment of, Attending Annual Conventions, 235.
- "Diversion of Irrigating Water from Arizona Streams," presented, 175.
- DODD, J. N.—Discussion by, 234.
- DOELEMAN, HERMAN FRANÇOIS.—Elected an Associate Member, 360.
- D'OLIER, W. L.—Discussion by, 651.
- DORRANCE, FRANK YOUNG.—Transferred to Grade of Associate Member, 362.
- DOUGLAS, CHARLES EDSON.—Elected an Associate Member, 232.
- DOW, ALEX.—Discussion by, 705.
- DREW, CHARLES DAVIS.—Transferred to Grade of Member, 544.
- DRURY, WALTER RHODES.—Elected a Junior, 3.
- DUBOIS, GUSTAVO ADOLFO.—Transferred to Grade of Associate Member, 291.
- DUN, HENRY WALKER, JR.—Elected an Associate Member, 361.
- DU PRE, WALLACE DUNCAN.—Elected a Junior, 181.
- DURHAM, EDWARD MIAL, JR.—Elected a Member, 541.
- DURHAM, H. W.—Discussion by, 72, 73.

EAGER.

- EAGER, VERNON MILTON.—Elected an Associate Member, 360.
- EARLE, THOMAS.—On Nominating Committee, 69, 97.
- EDDY, CHARLES WELLS.—Transferred to Grade of Member, 362.
- EDWARDS, JAMES H.—On Publication Committee, 76; On Committee of Arrangements for Annual Convention, 132; On Sub-Committee of Board of Direction to Consider and Report on Work of Special Committees, 292; Appointed Teller to Canvass Preliminary and Final Suggestions for Nominating Committee, 655.
- EDWARDS, RAYMOND ARDEN.—Elected a Junior, 361.
- EDWARDS, W. W.—Paper by, 539.
- EIDE, TORRIS.—Transferred to Grade of Associate Member, 234.
- ELD, CHARLES JOHN, JR.—Transferred to Grade of Member, 290.
- ELLETT, TAZEWELL, JR.—Elected an Associate Member, 593.
- ELLIOTT, ALLEN EDRICK.—Elected an Associate Member, 74.
- ELLIOTT, GEORGE ALEXANDER MILLER.—Transferred to Grade of Member, 362.
- ELLIS, EDWARD MYRON.—Elected an Associate Member, 289.
- ELLIS, GEORGE HENRY.—Elected an Associate Member, 542.
- ELLIS, HERBERT CRAM.—Transferred to Grade of Associate Member, 544.
- ENDICOTT, M. T.—Motion by, Relative to Proposed Amendments to the Constitution, 66, 80.
- Engineering Education, Special Committee on.—Progress Report of, 70, 106.
- Engineering Practice. — Resolution Relative to Regulation of, 71, 113.
- ERICSON, ERIC GUSTAF.—Elected a Member, 3.
- Ethics, Code of. *See* Code of Ethics.
- EVERETT, PERCIVAL HERBERT.—Elected a Member, 3.
- EVERS, WILLIAM HENRY.—Elected an Associate Member, 180.
- "External Corrosion of Cast-Iron Pipe," presented and discussed, 592.

FAIRBANKS.

- FAIRBANKS, HARRY JOHN.—Elected a Junior, 75.
- FARRINGTON, W. R.—Discussion by, 73.
- FEELEY, WILLIAM PATRICK.—Transferred to Grade of Associate Member, 654.
- FELLER, FRANK HENRY.—Elected a Member, 541.
- FERNALD, GORDON HILDRETH.—Elected an Associate Member, 706.
- FERRIS, JAMES JOSEPH.—Death announced, 359, 396.
- FEUSTEL, ROBERT MAXIMILIAN.—Elected an Associate Member, 652.
- Finance Committee.—Appointment of, 76.
- FINCH, J. K.—Discussion by, 73.
- FINKBEINER, DANIEL TALBOT. — Elected a Junior, 707.
- FITZGERALD, DESMOND.—Presents Progress Report of Special Committee on Engineering Education, 70, 106.
- FLAD, EDWARD.—Paper by, 73.
- FLINN, A. D.—Discussion by, 592.
- Floods and Flood Prevention, Special Committee on.—Progress Report of, 359, 397.
- FLOY, HENRY.—Discussion by, 1, 182.
- FOLLIN, JAMES WIGHTMAN.—Elected a Junior, 593.
- FOOTE, OLNEY NORMAN.—Elected an Associate Member, 542.
- FORBES, MURRAY.—Death announced, 4.
- FORSYTH, HAROLD FREDERICK.—Transferred to Grade of Associate Member, 594.
- FOSTER, SAMUEL DAVIS.—Transferred to Grade of Member, 653.
- FOURMY, JAMES MCCARDELL.—Elected an Associate Member, 360.
- FOWLER, CHARLES EVAN.—Discussion by, 287.
- FOWLER, JAMES DUNCAN.—Elected an Associate Member, 593.
- FRANCIS, CHARLES.—Death announced, 356.
- FRANCIS, HARRY VIVIAN.—Elected a Member, 288.
- FRANZE, G., and HERMANN SCHAEFER.—Discussion by, 651.
- FRASER, DE GENNES.—Elected an Associate Member, 652.

FRAZIER.

- FRAZIER, JAMES LEWIS.—Death announced, 288.
- FREDERICK, FLOYD WILLIS.—Elected a Member, 359.
- FRIELINGSDOFF, HUGO AUGUST.—Elected an Associate Member, 593.
- FRISSELL, NELSON EMMONS.—Elected a Junior, 593.
- FROST, EDWARD MURRAY.—Elected a Junior, 361.
- FRY, HOWELL LEWIS.—Elected an Associate Member, 3.
- FULEIHAN, NASRI SOLOMON.—Elected a Junior, 707.
- FULLER, GEORGE W.—Elected Director, 72, 116; On Finance Committee, 76; On Committee of Arrangements for Annual Convention, 132; Discussion by, 651.
- FULWEILER, W. H.—Discussion by, 73. "Fundamental Principles of Public Utility Valuation," presented and discussed, 705.
- GAHAGAN, WALTER H.—On Committee of Arrangements for Annual Meeting, 710.
- GALLAGHER, LEONARD BRUCE.—Elected a Junior, 707.
- GANDOLFO, J. H.—Appointed Teller to Canvass Ballot on Proposed Code of Ethics, 540; Paper by, 705.
- GARDNER, H. A.—Discussion by, 2.
- GARDNER, MARTIN LUTHER.—Death announced, 541.
- GASCOIGNE, GEORGE BRADLEY.—Elected an Associate Member, 652.
- GATES, WARREN AUSTIN.—Death announced, 541.
- GAY, FREDERICK WALDO.—Elected a Member, 3.
- GAY, LEON LINCOLN.—Death announced, 592.
- GAZLAY, WEBSTER.—Death announced, 181.
- GEARHART, WALTER SCOTT.—Transferred to Grade of Member, 75.
- GELDER, ROYAL WILLIAM.—Elected an Associate Member, 652.
- Geographical Districts.—Resolutions of Board of Direction Relative to Increasing the Number of, 366.
- GEORGE, HENRY HORTENSIUS, 3D.—Elected a Junior, 543.

GEORGE.

- GEORGE, HOWARD HOWELL.—Elected an Associate Member, 232.
- GERBER, EMIL.—On Special Committee to Report on Stresses in Railroad Track, 2, 6, 71, 109; On Finance Committee, 76; Death announced, 291; Resolution of Board of Direction on Death of, 364.
- GETTY, LORENZO TODD.—Elected a Junior, 290.
- GIBBS, WILLIAM WETMORE.—Elected a Junior, 593.
- GIFFELS, WILLIAM CHARLES.—Elected a Junior, 361.
- GILLESPIE, CHESTER GORDON.—Transferred to Grade of Associate Member, 291.
- GILMAN, EDGAR DOW.—Elected a Junior, 233.
- GLANDER, JOHN HENRY, JR.—Transferred to Grade of Associate Member, 654.
- GODFREY, EDWARD.—Discussion by, 231.
- GODFREY, HOLLIS.—Elected a Member, 592.
- GOETHALS, GEORGE RODMAN.—Transferred to Grade of Associate Member, 234.
- GOLDBECK, ALBERT THEODORE.—Elected an Associate Member, 289.
- GOLDSMITH, WILLIAM.—Discussion by, 72, 73, 356.
- GONS, LOUIS RICHARD.—Elected a Junior, 543.
- GOODSELL, D. B.—Discussion by, 73.
- GOODWILLIE, DAVID HERRICK.—Elected an Associate Member, 232.
- GORDON, FRED FORCE.—Elected a Member, 288.
- GORE, ELBERT BRUTUS.—Elected a Member, 3.
- GOULD, AUGUSTUS GEORGE.—Elected an Associate Member, 593.
- GOW, CHARLES RICE.—Transferred to Grade of Member, 290.
- GRANBERY, J. H.—Appointed Teller to Canvass Ballot for Officers, 65, 78; Appointed Teller to Canvass Ballot on Proposed Code of Ethics, 540; On Committee of Arrangements for Annual Meeting, 710.

GRANT.

- GRANT, JOHN ROBERT.—Transferred to Grade of Member, 362.
- GRANT, JUSTUS HERBERT.—Death announced, 541.
- GRAVELLE, ALVIN.—Transferred to Grade of Member, 75.
- GRAY, EARLE PIERCE.—Elected a Junior, 361.
- GRAY, HARRY WOY. — Death announced, 5.
- GRAY, ROY CECIL.—Transferred to Grade of Associate Member, 181.
- GREEN, BERNARD RICHARDSON. — Death announced, 654.
- GREEN, CLARENCE JASPER.—Elected an Associate Member, 652.
- GREEN, FREDERICK WILLIAM.—Transferred to Grade of Associate Member, 362.
- GREEN, PAUL E.—Discussion by, 73.
- GREGORY, C. E.—Discussion by, 592.
- GREGSON, ALVERO CHARLES.—Transferred to Grade of Associate Member, 291.
- GREINER, J. E.—On Committee of Arrangements for Annual Convention, 132; Nominated as Director, 597.
- GRINDROD, IRVIN SUTTON.—Transferred to Grade of Associate Member, 362.
- GRISWOLD, HORACE SETH.—Transferred to Grade of Associate Member, 544.
- GRODSKE, WALTER JOHN.—Elected an Associate Member, 593.
- GRONER, TRGYE DANIEL BODTKER.—Elected an Associate Member, 180.
- "Grouted Cut-Off for the Estacada Dam," presented and discussed, 175.
- GROVER, NATHAN CLIFFORD.—Transferred to Grade of Member, 290.
- GROVES, WALTER CLYDE.—Elected a Junior, 594.
- GUDE, ALBERT VALDEMAR, JR. — Transferred to Grade of Member, 4.
- GUERINGER, LOUIS AMEDEE.—Transferred to Grade of Member, 75.
- HAIG, CECIL SHIELDS.—Elected an Associate Member, 180.
- HALL, FREDERIC FRANCIS.—Elected a Member, 3.
- HALL, GILBERT G.—Elected an Associate Member, 289.

HALL.

- HALL, HOWARD WASHINGTON. — Elected an Associate Member, 706.
- HAMBLETON, F. H.—On Committee of Arrangements for Annual Convention, 132.
- HAMILTON, CHARLES FRAZINE. — Elected a Member, 359.
- HAMILTON, EDWARD PARMELEE. — Transferred to Grade of Associate Member, 362.
- HAMILTON, ROSS ELROY.—Elected an Associate Member, 232.
- HAMILTON, WILLIAM EDWARD. — Transferred to Grade of Associate Member, 544.
- HAMMATT, W. C.—Paper by, 355.
- HANCOCK, CLAUDE FRANKLIN. — Elected a Junior, 290.
- HAND, RICHARDSON. — Transferred to Grade of Associate Member, 544.
- HANNAH, MANTON.—Transferred to Grade of Associate Member, 544.
- HANNAN, DAVID EDWARD.—Elected an Associate Member, 593.
- HANSEL, CHARLES.—Discussion by, 234.
- HANSELL, WILLIAM ALBERT. —Transferred to Grade of Member, 75.
- HARDING, EDWARD CRITTENDEN, JR.—Elected a Junior, 543.
- HARLOW, JAMES H.—Discussion by, 652.
- HARMON, WATSON GILBERT.—Elected an Associate Member, 542.
- HARRAH, ORIN WILSON.—Elected a Junior, 361.
- HARRINGTON, ARTHUR WILLIAM.—Transferred to Grade of Associate Member, 4.
- HARRIS, A. L.—Paper by, 175.
- HARRIS, GEORGE WILLIAM.—Elected an Associate Member, 706.
- HARRIS, HARRY FALLON.—Elected an Associate Member, 74.
- HARRIS, LEWIS BIRDSALL.—Elected a Member, 592.
- HARTE, CHARLES RUFUS.—Discussion by, 1, 234, 706.
- HARTWELL, OLIVER WHITCOMB.—Elected an Associate Member, 74.
- HASKELL, EUGENE E.—Elected a Director, 72, 116.
- HAUKE, CHARLES ROYCE.—Elected a Junior, 594.

HAUPT.

HAUPT, L. M.—Discussion by, 706.
 HAWGOOD, H.—Paper by, 356.
 HAWKINS, NED ELMER.—Elected an Associate Member, 706.
 HAWLEY, GEORGE WILLIAM.—Elected a Junior, 543.
 HAWLEY, JOHN B.—Nominated as Director, 597.
 HAWLEY, JOHN PRINCE.—Transferred to Grade of Member, 362.
 HAYDON, GEORGE CONDIT.—Elected a Member, 74.
 HAYES, FERDINAND EUGENE, JR.—Transferred to Grade of Associate Member, 654.
 HAYNES, CLAUDE SANFORD.—Death announced, 356.
 HAYS, JOHN WILLIS.—Death announced, 76.
 HAZEN, ALLEN.—Discussion by, 1; Paper by, 1.
 HECK, KIRBY SCOTT.—Elected a Member, 541.
 HEDGES, SAMUEL H.—On Committee on Alfred Noble Memorial, 364.
 HEDLUND, DAVID ARTHUR.—Elected a Junior, 181.
 HEISER, ALFRED BRACKENRIDGE.—Transferred to Grade of Associate Member, 362.
 HEMSTREET, GEORGE P.—Discussion by, 73.
 HENDRICK, CALVIN W.—Address by, 359, 408.
 HENDRICKS, SEWARD DANIEL.—Elected an Associate Member, 3.
 HENNY, D. C.—Discussion by, 591.
 HENRY, DAVID EDWARD.—Elected an Associate Member, 360.
 HENRY, P. W.—Discussion by, 182, 232.
 HERING, RUDOLPH.—Discussion by, 651.
 HERSCHEL, CLEMENS.—Nominated as Vice-President, 596.
 HERSEY, THEODORE SCHUYLER.—Elected a Junior, 181.
 HEWES, V. H.—Discussion by, 175.
 HEWETT, MAURICE WILLIAM.—Elected a Junior, 543.
 HEYWORTH, JAMES ORMEROD.—Elected a Member, 288.
 HICKEY, LOUIS THOMAS FRANKLIN.—Elected an Associate Member, 360.
 HICKS, WILLIAM FREDERICK.—Elected an Associate Member, 232.

HIGGINS.

HIGGINS, C. H.—Resolution by, Relative to Regulation of Engineering Practice, 71, 113.
 HILL, WILLIAM ANDREW.—Elected an Associate Member, 360.
 HINCZ, HIPOLIT MIKOLAJ.—Elected an Associate Member, 289.
 HINES, HOMER ESTLE.—Transferred to Grade of Associate Member, 594.
 HOAR, ALLEN.—Elected a Junior, 75.
 HODGE, HENRY W.—On Finance Committee, 76; Discussion by, 287; On Sub-Committee of Board of Direction to Consider and Report on Work of Special Committees, 292; Appointed Teller to Canvass Preliminary and Final Suggestions for Nominating Committee, 655.
 HOFFMANN, ALFRED WILLY.—Elected an Associate Member, 593.
 HOGG, WILLIAM THOMAS.—Elected a Junior, 653.
 HOLBROOK, ARTHUR RAYMOND.—Transferred to Grade of Associate Member, 291.
 HOLDEN, WILLIAM.—Elected a Junior, 181.
 HOLLAND, ARTHUR FRANCIS.—Elected a Junior, 233.
 HOLLAND, RAY KINGSBURY.—Elected an Associate Member, 360.
 HOLLIDAY, WILLIAM FLEMING.—Elected an Associate Member, 232.
 HOLLOWAY, ROGER TIFFT.—Death announced, 234.
 HONE, AUGUSTUS CRANE.—Elected an Associate Member, 232.
 HOOVER, ANDREW PEARSON.—Elected an Associate Member, 180.
 HOPKINS, CHARLES ARCHER.—Elected an Associate Member, 360.
 HORNER, W. W.—Discussion by, 592.
 HORTON, JOHN WILLIAM.—Transferred to Grade of Associate Member, 708.
 HORTON, PHILIP ZELL.—Elected a Junior, 290.
 HOSKINS, JOHN KURTZ.—Elected an Associate Member, 593.
 HOSSACK, ARCHIBALD BABCOCK.—Elected a Junior, 594.
 HOUSTON, WILLIAM OFFUTT.—Elected a Member, 592.
 HOWE, WILLIAM CHAFFIN.—Elected an Associate Member, 542.

HOWES.

- HOWES, CYRUS PIERCE.—Transferred to Grade of Associate Member, 181.
- HOWLAND, LEON DAVID.—Elected a Junior, 75.
- HOWSON, LOUIS RICHARD.—Elected an Associate Member, 706.
- "Huacal Dam, Sonora, Mexico," presented and discussed, 356.
- HUBBARD, DANIEL.—Transferred to Grade of Associate Member, 544.
- HUDSON, LEO.—Elected an Associate Member, 542.
- HUDSON, OSCAR ALVIN.—Elected an Associate Member, 593.
- HUDSON, TOM HIND.—Transferred to Grade of Associate Member, 181.
- HUFF, CLYDE LESLIE.—Transferred to Grade of Member, 290.
- HULSE, SHIRLEY CLARK.—Discussion by, 175; Transferred to Grade of Member, 181.
- HUMPHREY, RICHARD L.—Presents Progress Report of Special Committee on Concrete and Reinforced Concrete, 70, 105.
- HUMPHREYS, ALEXANDER C.—Discussion by, 1, 182, 706.
- HUNICKE, WILLIAM AUGUST.—Death announced, 231.
- HUNT, CHARLES WARREN.—Elected Secretary, 76; On Library Committee, 76; On Committee of Arrangements for Annual Convention, 132; On Joint Reception Committee for International Engineering Congress, 358, 366, 396; On Committee on Alfred Noble Memorial, 364; On Committee to Prepare Memoir of Alfred Noble, 365; On John Fritz Medal Board of Award, 709; On Committee of Arrangements for Annual Meeting, 710.
- HUNT, HORACE SINCLAIR.—Elected an Associate Member, 593.
- HUNT, ROBERT W.—On Special Committee to Report on Stresses in Railroad Track, 2, 6, 71, 109.
- HUNTINGTON, LINN MURDOCH.—Transferred to Grade of Member, 4.
- HURD, HURD CLARENCE.—Death announced, 541.
- HURLBUT, CHARLES C.—Discussion by, 288.

IMMICH.

- IMMICH, HOLLIS DOUGLASS.—Elected an Associate Member, 360.
- International Engineering Congress, 1915.—Appointment of Society's Representatives on Joint Reception Committee for, 358, 366, 396; Address by W. A. Cattell Relative to, 359, 399.
- JACKSON, DUGALD C.—Presents Progress Report of Special Committee to Investigate Conditions of Employment of, and Compensation of, Civil Engineers, 70, 103; Motion by, Relative to Progress Report of Special Committee to Investigate Conditions of Employment of, and Compensation of, Civil Engineers, 70, 103.
- JAENICKE, WILLIAM HUGO.—Elected a Junior, 181.
- JAMES, E. W.—Discussion by, 72.
- JAMES, FRANK TROWBRIDGE.—Elected an Associate Member, 652.
- JANNI, A. C.—Discussion by, 73.
- JENKINS, WILLIAM DUNBAR.—Death announced, 234.
- JENNINGS, C. A.—Discussion by, 651.
- JESSUP, WALTER EDGAR.—Elected a Junior, 233.
- JEWEL, L. L.—Discussion by, 706.
- JOACHIMSON, MARTIN.—Elected a Member, 180.
- JOHNSON, A. N.—Appointed a Delegate to American Road Congress, 595.
- JOHNSON, GEORGE RUFUS.—Transferred to Grade of Member, 653.
- JOHNSON, HARVEY STONE.—Elected a Junior, 233.
- JOHNSON, RAYMOND D.—Paper by, 706; Discussion by, 706.
- JOHNSON, THEODORE SEDGWICK.—Transferred to Grade of Associate Member, 4.
- JOHNSON, THOMAS H.—Death announced, 291.
- JOHNSTON, CLARENCE T.—Paper by, 539.
- JOHNSTON, J. A.—Presides at Meeting, 73.
- JONES, BENJAMIN EARL.—Transferred to Grade of Associate Member, 708.
- JONES, CLARENCE STRAIN.—Elected a Junior, 543.

JONES.

- JONES, EDWARD HORTON.—Elected an Associate Member, 180.
- JONES, JOHN HENRY.—Elected a Junior, 361.
- JONES, PERCY FRANCIS.—Elected an Associate Member, 74.
- JONES, SARGENT FELIX.—Elected an Associate Member, 180.
- JORDAN, LEONARD CROUCH.—Elected an Associate Member, 542.
- JORGENSEN, LARS RASMUS.—Transferred to Grade of Member, 544; Paper by, 591.
- JOYCE, WALTER EDWARD.—Elected an Associate Member, 360.
- KABLE, GEORGE WALLACE.—Elected a Junior, 653.
- KACKLEY, WALTER JOHN.—Elected an Associate Member, 180.
- KALLASCH, WINFRED MILLER.—Elected an Associate Member, 289.
- KANE, WALTER WARD.—Elected an Associate Member, 360.
- KAST, CLARKE NIGHTINGALE.—Transferred to Grade of Member, 707.
- KATIGBAK, JOSÉ PETRONIO.—Elected an Associate Member, 232.
- KATTÉ, WALTER.—Correspondence by, Relative to Proposed Code of Ethics, 377.
- KEEFER, CHARLES H.—Elected a Director, 72, 116.
- KELLEY, JOSEPH GRANT.—Elected a Member, 592.
- KELLOGG, R. C.—Discussion by, 592.
- KENDALL, FRANK B.—Elected an Associate Member, 74.
- KERR, FRANK M.—Resignation Accepted, as Chairman of Special Committee on Floods and Flood Prevention, 235.
- KERRY, JOHN GEORGE GALE.—Elected a Member, 180.
- KERSHAW, G. BERTRAM.—Discussion by, 651.
- KETCHUM, MILO S.—On Nominating Committee, 69, 98.
- KILBY, CHARLES CHRISTOPHER.—Elected a Junior, 290.
- KIMBLE, HOWARD.—Elected an Associate Member, 593.
- KINGSCOTT, WALTER JOHN.—Elected an Associate Member, 360.
- KINGSLEY, JOSEPH OLIVER.—Elected a Junior, 543.

KINNEY.

- KINNEY, W. M.—Discussion by, 73.
- KIRKWOOD, HOWARD CAMBERNE.—Transferred to Grade of Associate Member, 544.
- KITTREDGE, GEORGE W.—On Special Committee to Report on Stresses in Railroad Track, 2, 6, 71, 109.
- KITTREDGE, RAYMOND BROWN.—Elected an Associate Member, 74.
- KLINGNER, LOUIS WILLIAM.—Transferred to Grade of Associate Member, 362.
- KNISKERN, LEWIS THAYER.—Transferred to Grade of Associate Member, 708.
- KNOETTGE, CARL HARMAN.—Elected a Junior, 543.
- KNOWLES, CHARLES H.—Elected an Associate Member, 542.
- KNOWLES, MORRIS.—Discussion by, 182.
- KOCH, JOHN C.—Paper by, 180.
- KOCH, OTTO HERMAN SIEGFRIED.—Elected a Junior, 594.
- KOON, RAY EMERSON.—Transferred to Grade of Member, 181.
- KRAUSS, JOHN JACOB.—Elected a Junior, 233.
- KRIEGER, ALBERT AUGUST.—Transferred to Grade of Associate Member, 708.
- KRIEGSMAN, EUGEN FREDERICK.—Transferred to Grade of Associate Member, 544.
- KRIGBAUM, LOWELL GAYNOR.—Elected a Junior, 653.
- KRISTAL, FRANK.—Elected a Junior, 543.
- KUICHLING, EMIL.—Discussion by, 651; Death announced, 706.
- KWANK, BANG.—Elected a Junior, 594.
- LABELLE, HENRY FRANCIS.—Death announced, 4.
- LACKEY, O. F.—Address by, 359, 408.
- LACY, EDWARD PHILIP.—Elected an Associate Member, 360.
- LAMONT, CLARENCE BOOTH.—Transferred to Grade of Member, 362.
- LANE, EMORY WILSON.—Elected a Junior, 181.
- LANE, JOHN HAROLD.—Elected an Associate Member, 360.
- LANGTHORN, J. S.—On Committee of Arrangements for Annual Meeting, 710.

LANT.

- LANT, FRANK PARSONS.—Death announced, 541.
- LARSSON, C. G. E.—On Special Committee to Report on Stresses in Railroad Track, 358, 366, 396.
- LATSHAW, CHARLES ARTHUR.—Elected an Associate Member, 593.
- LAURGAARD, OLAF.—Transferred to Grade of Member, 290.
- Laurie Prize.—Award of, 5, 71, 109.
- LAVER, F.—Discussion by, 1, 182, 705, 706; Paper by, 232.
- LAYLIN, JOHN.—Elected an Associate Member, 180.
- LEAKE, BOUDINOT GAGE.—Transferred to Grade of Member, 290.
- LEBEDEFF, MICHAEL NIKANOROVITCH.—Elected an Associate Member, 232.
- LE CONTE, L. J.—Discussion by, 652.
- LEDLIE, CHARLES H.—Correspondence by, Relative to Proposed Code of Ethics, 358, 372.
- LEE, CHARLES H.—Paper by, 288.
- LEE, GEORGE ALLEN.—Elected a Member, 3.
- LEEDS, LIVINGSTON ALLAIRE.—Elected a Junior, 290.
- LEISER, FERDINAND, JR.—Elected a Junior, 361.
- LEONARD, HENRY R.—On Publication Committee, 76.
- LEONARD, OLIVER YEATON.—Transferred to Grade of Associate Member, 654.
- LESTER, HOMER ALLAN.—Elected a Junior, 707.
- LEWIS, E. C.—On Library Committee, 76.
- LEWIS, NELSON P.—On Special Committee to Report on Materials for Road Construction, 5, 77; On Special Committee to Investigate Conditions of Employment of, and Compensation of, Civil Engineers, 358, 366, 396.
- LEWIS, OTIS FURMAN.—Elected an Associate Member, 593.
- LEWIS, WASHINGTON BART.—Elected an Associate Member, 3.
- LEX, WASHINGTON IRVING.—Transferred to Grade of Member, 233.
- Library.—Accessions to the, 23, 138, 190, 245, 301, 431, 552, 603, 665, 719.
- Library Committee.—Appointment of, 76.

LINDERS.

- LINDERS, JOHN EDWARD AUGUST.—Elected an Associate Member, 542.
- LINNELL, HERBERT PRESCOTT.—Transferred to Grade of Member, 75.
- LINSLEY, CHARLES WELLS.—Elected an Associate Member, 232.
- LINTON, THOMAS EDWIN.—Elected an Associate Member, 593.
- LITTLE, JOHN CALVIN.—Elected an Associate Member, 652.
- LLEWELLYN, LEE.—Elected a Member, 232.
- Local Associations of Members of the American Society of Civil Engineers.—Constitution of Texas Association Approved, 5; Letter Relative to the, 71, 112; Abstract of Minutes of Meetings of, 134, 135, 185, 186, 241, 242, 295, 296, 297, 298, 425, 426, 428, 599, 658, 659, 660, 662, 713, 714, 715; Constitution of Spokane Association Approved, 235; Constitution of Louisiana Association Approved, 292; Constitution of Baltimore Association Approved, 545; Constitution of St. Louis Association Approved, 600; Constitution of Northwestern Association Approved, 655; Resolution of Board of Direction Relative to Mileage Allowance to Presidents of, At New York Meeting, 709.
- LOEWE, DAVID LUDWIG.—Elected an Associate Member, 232.
- LOEWENSOHN, DAVID.—Elected a Member, 359.
- LOGAN, JAMES.—Elected an Associate Member, 542.
- LONG, CLARENCE EDWARD.—Transferred to Grade of Associate Member, 544.
- LONGLEY, FRANCIS FIELDING.—Transferred to Grade of Member, 708.
- LOOMIS, LESLIE BROWN.—Elected an Associate Member, 3.
- Louisiana Association of Members of the American Society of Civil Engineers.—Constitution Approved, 292.
- LOVE, GEORGE CORPENING.—Elected an Associate Member, 542.
- LOVERING, HARRY DOUGLAS.—Elected a Junior, 543.
- LOWETH, CHARLES F.—Elected a Vice-President, 72, 116; Discussion by, 288; Presides at Meeting, 592.
- LOWINSON, OSCAR.—Discussion by, 288.

LUCIUS.

- LUCIUS, ALBERT.—Discussion by, 287.
 LUM, D. W.—Discussion by, 234.
 LUTZ, ULYSSES STANISLAUS.—Death announced, 2.
 LYNCH, CONLAW ROBERT.—Elected a Junior, 707.
 LYNCH, EDWARD MELVILLE.—Elected an Associate Member, 706.
 LYNDE, HARRY MILTON.—Transferred to Grade of Associate Member, 234.
 LYON, FREDERIC WILLIAM.—Transferred to Grade of Associate Member, 4.
 LYON, GEORGE JOHN.—Elected a Member, 360.
 MACALISTER, DICKINSON. — Death announced, 541.
 MACALLUM, ANDREW FULLERTON.—Elected a Member, 74.
 MACARTNEY, MORTON.—Transferred to Grade of Member, 290.
 MACCALLUM, ALEXANDER WILLIAM.—Elected a Member, 541.
 MACCRACKEN, GEORGE GERE.—Death announced, 2.
 MACCULLOCH, CHARLES HARVEY.—Elected a Member, 232.
 MACDOUGALL, DAVID CADENHEAD.—Elected an Associate Member, 232.
 MACK, GEORGE HORACE.—Transferred to Grade of Associate Member, 362.
 MACK, PAUL WARDLAW.—Elected an Associate Member, 542.
 MACPHERSON, FREDERICK LIDDELL.—Elected an Associate Member, 289.
 MACREDIE, JOHN ROBERT CLARKE.—Transferred to Grade of Member, 4.
 McBEAN, DUNCAN D.—Discussion by, 591.
 McCANN, WILLIAM RAY.—Elected an Associate Member, 289.
 McCASSY, STANLEY.—Elected a Junior, 653.
 McCLAIN, JAMES BROWNSON. — Elected an Associate Member, 542.
 McCLINTOCK, JAMES ROBINSON.—Transferred to Grade of Member, 362.
 McCONNELL, I. W.—Discussion by, 72.

McCORMICK.

- McCORMICK, HERBERT GRANVILLE.—Transferred to Grade of Member, 362.
 McDONALD, HUNTER.—Elected President, 72, 116; Address by, 72, 116, 357, 371; Presides at Meeting, 72, 176, 288, 357, 359, 372, 399.
 McDOWELL, FLOYD FRANCIS.—Elected an Associate Member, 289.
 McENTIRE, LLOYD.—Elected a Junior, 543.
 McKIBBEN, HALRY SEYMOUR. — Elected an Associate Member, 706.
 McKINNEY, F. W.—Address by, 359, 406.
 McLAREN, ARTHUR ANTHONY. — Elected a Junior, 361.
 McLoughlin, FREDERIC OGANAM XAVIER.—Elected a Junior, 233.
 McMEEKIN, CHARLES WILLIAM.—Transferred to Grade of Member, 544.
 McNAB, WILLIAM.—On Special Committee to Report on Stresses in Railroad Track, 2, 6, 71, 109.
 MADDOCK, THOMAS.—Elected an Associate Member, 360.
 MADISON, JAMES TALBOTT.—Elected an Associate Member, 653.
 MAGUIRE, GEORGE.—Elected an Associate Member, 706.
 MAIER, HERMAN RICHARD.—Elected a Junior, 653.
 Mailing List.—Resolution of Board of Direction Relative to Use of, 236.
 MAITLAND, GEORGE FORREST.—Elected a Member, 288.
 MALLEY, PATRICK JAMES.—Elected an Associate Member, 232.
 MALMQUIST, EDWARD ANDERS. — Elected a Junior, 233.
 MALSBUY, OMER EVERT. — Transferred to Grade of Associate Member, 76.
 MALTBE, M. R.—Discussion by, 182.
 MANNING, WILLIAM JAMES HENRY.—Elected a Junior, 75.
 MANTON, ARTHUR WOODROFFE. — Elected a Member, 3.
 MARANI, VIRGIL GEORGE.—Elected a Member, 74.
 MARBURG, EDGAR.—Correspondence by, Relative to Proposed Code of Ethics, 358, 375.
 MARSH, CHARLES REED.—Transferred to Grade of Associate Member, 4.

MARSHALL.

MARSHALL, LAURENCE KENNEDY.—Elected a Junior, 361.
 MARSHALL, THOMAS WORTH.—Transferred to Grade of Member, 362.
 MARTIN, GEORGE EARL.—Elected a Junior, 653.
 MARTIN, JAMES.—Elected an Associate, 543.
 MARTIN, JAMES WALTER.—Elected an Associate Member, 74.
 MARTIN, JOSEPH PATRICK.—Elected an Associate Member, 3.
 MARTIN, LEWIS M.—Elected an Associate Member, 593.
 MARX, CHARLES D.—Nominated as President, 596.
 MASHBURN, LEON WADDELL.—Elected an Associate Member, 289.
 MATAMORAS, JUAN LORIA.—Elected a Junior, 181.
 MATHEWS, EDWARD GILBERT.—Elected an Associate Member, 360.
 MATSON, JESSE SIDWELL.—Death announced, 541.
 MATTHEWS, WARREN SHEPARD.—Elected a Junior, 75.
 MAY, DONALD CURTIS.—Elected a Junior, 290.
 MAYPER, VICTOR.—Elected a Junior, 233.
 MAXWELL, FRANKLIN RUFUS.—Elected a Junior, 75.
 MAZEAU, CAMILLE.—Transferred to Grade of Member, 362.
 MEARS, FREDERICK.—Transferred to Grade of Member, 544.
 MEEKER, ROBERT ANDERSON.—Discussion by, 72, 73; Elected a Member, 288.
 MEGRAW, WILLIAM ADAMS.—Elected an Associate Member, 593.
 MERSE, GEORGE JOHN.—Elected a Junior, 233.
 MELVIN, DAVID NEILSON.—Death announced, 176.
 Membership.—Additions, 28, 143, 195, 248, 309, 444, 556, 607, 671, 724; Changes of Address, 199, 251, 312, 455, 556, 612, 674, 727; Resignations, 32, 146, 204, 257, 472, 620, 732; Reinstatements, 321; Expulsions, 559; Deaths, 33, 146, 204, 258, 321, 472, 559, 620, 679, 732.
 MENSCH, L. J.—Discussion by, 356.

MERIWETHER.

MERIWETHER, BENJAMIN BALDWIN.—Elected an Associate Member, 74.
 MERRIMAN, LESLIE WILLIAM.—Elected an Associate Member, 706.
 MERRIMAN, THADDEUS.—Correspondence by, Relative to Proposed Code of Ethics, 377.
 METCALF, LEONARD.—Discussion by, 1; On Finance Committee, 76.
 MICHAEL, HERBERT LEDLIE.—Elected an Associate Member, 360.
 Mileage of Directors.—Resolution of Board of Direction Relative to Payment of, Attending Annual Meetings, 77; Report of Board of Direction Relative to Payment of, Attending Annual Conventions, 235.
 MILES, HAMILTON VINCENT.—Elected an Associate Member, 232.
 MILES, JOHN WILEY.—Death announced, 4.
 MILLARD, CHANCEY SPENCER.—Elected an Associate Member, 707.
 MILLER, ALEXANDER NORMAN.—Elected an Associate Member, 3.
 MILLER, KARL ANDREW.—Elected a Junior, 707.
 MILLER, PAUL BERTOLET.—Elected an Associate Member, 289.
 MILLER, RUDOLPH P.—On Special Committee on Steel Columns and Struts, 358, 366, 396.
 MILLER, SPENCER.—Discussion by, 652.
 MILLIGAN, ROBERT EDGAR.—Elected a Member, 180.
 MILLS, GUY G.—Elected a Junior, 361.
 MILLS, MARION ELBERT.—Elected an Associate Member, 593.
 Minutes of Meetings of Special Committees, 181, 234, 662.
 Minutes of Meetings of the Board of Direction, 5, 76, 77, 235, 292, 363, 367, 545, 595, 655, 709.
 Minutes of Meetings of the Society, 1, 2, 65, 72, 73, 78, 175, 176, 181, 231, 232, 234, 287, 288, 355, 357, 359, 368, 372, 399, 539, 591, 592, 651, 652, 705, 706.
 MISCHKE, ALEXANDER.—Transferred to Grade of Associate Member, 708.
 MIX, EDGAR HENRY.—Death announced, 76.

MODJESKI.

- MODJESKI, RALPH.—On Committee to Prepare Memoir of Alfred Noble, 365.
- MOGENSEN, O. E.—Discussion by, 356.
- MOISSEIFF, L. S.—Discussion by, 287.
- MOLITOR, FREDERIC.—Nominated as Director, 597.
- MONETT, HARRY.—Elected an Associate Member, 707.
- MONROE, JULIUS KEMBLE.—Elected a Member, 288.
- MONTFORT, RICHARD.—Elected a Director, 72, 116; Discussion by, 288.
- Monthly List of Recent Engineering Articles of Interest, 35, 147, 205, 259, 322, 473, 560, 621, 680, 733.
- MOOMAW, DALTON.—Elected an Associate Member, 593.
- MOORE, ARTHUR ROLAND.—Elected an Associate Member, 289.
- MOORE, ROBERT.—On Committee on Alfred Noble Memorial, 364.
- MORGAN, JOSEPH HOLLOWAY. — Elected a Junior, 75.
- MORRISON, ARTHUR HERBERT. — Elected a Junior, 290.
- MORRISON, ROBERT ORRELL.—Elected an Associate Member, 232.
- MORSE, BENJAMIN FRANKLIN.—Death announced, 234.
- MORSE, ROBERT BROOKS.—Transferred to Grade of Member, 544.
- MORTIMER, JAMES DANIEL.—Elected a Member, 360.
- MOYLAN, LEONARD KYRAN.—Elected a Junior, 181.
- MUIR, JAMES CECIL.—Elected an Associate Member, 74.
- MUIRHEAD, J. H. H.—Discussion by, 234, 355.
- MUMFORD, GURDON SALTONSTALL.—Elected an Associate Member, 542.
- MUNN, HARVEY TIMLOW.—Elected a Junior, 3.
- MUÑOZ, GONZALO CLAUDIO.—Elected an Associate Member, 360.
- MURPHY, EDWARD THEOBALD. — Elected an Associate Member, 542.
- MURPHY, JOSEPH LINCOLN.—Elected an Associate Member, 289.
- MURRAY, CLIFFORD EATON.—Elected a Junior, 290.
- MUSHAM, JOHN WILLIAM.—Elected a Member, 541.

MYERS.

- MYERS, JOHN HAYS.—On Committee of Arrangements for Annual Meeting, 710.
- NALDER, WILLIAM HENRY.—Elected an Associate Member, 232.
- NASH, FRANKLYN DANA. — Transferred to Grade of Member, 75.
- NELSON, GEORGE ALFRED.—Death announced, 288.
- NEUMAN, DAVID LEONARD.—Elected a Junior, 75.
- NEWELL, F. H.—On Committee on Alfred Noble Memorial, 364.
- NEWKIRK, SAMUEL FRANK.—Elected a Junior, 75.
- NICOLAYSEN, A. G.—Discussion by, 182.
- NOBLE, ALFRED.—Death announced, 291; Resolution of Board of Direction on Death of, 364; Appointment of Committee to Prepare Memoir of, 365.
- Noble, Alfred, Memorial.—Report of Board of Direction Relative to Proposed, 363; Appointment of Committee on, 364.
- NOLAN, GEORGE HENRY.—Elected a Member, 592.
- NOLAN, QUINCES ROBERTUS.—Elected a Junior, 290.
- NOLAN, THOMAS BREW, JR.—Elected an Associate Member, 707.
- Nominations, Committee on.—Report of Committee on Proposed Amendments to the Constitution Relative to, 66, 79; Text of Proposed Amendments Relative to, 67; Discussion on Proposed Amendments Relative to, 67, 80; Appointment of, 69, 95; Resolutions of Board of Direction Relative to Election of, 236; Motion Relative to Secret Ballot for, 358, 391; Discussion on Motion Relative to Secret Ballot for, 391; Presents List of Nominees, 596; Tellers Appointed to Canvass Preliminary and Final Suggestions for, 655; Report of Tellers Appointed to Canvass Preliminary Suggestions for, 655.
- NORDWELL, ALFRED WORCESTER. — Transferred to Grade of Associate Member, 362.
- Norman Medal.—Award of, 5, 70, 109.

NORTHWESTERN.

PAGE.

- Northwestern Association of Members of the American Society of Civil Engineers.—Constitution Approved, 655.
- NOWLIN, ROBERT ALDRIDGE.—Elected a Junior, 75.
- NUNN, HERBERT.—Elected an Associate Member, 542.
- OASTLER, WILLIAM CHURCHILL.—Death announced, 288.
- OBREITER, JOSEPH WILLIAM.—Transferred to Grade of Member, 362.
- OCKERT, FREDERICK WILLIAM.—Elected a Junior, 3.
- OESTREICH, HENRY LEWIS.—Death announced, 541.
- Officers and Management of Society.—Report of Committee on Proposed Amendments to the Constitution Relative to, 66, 79; Text of Proposed Amendments Relative to, 66, 67; Discussion on Proposed Amendments Relative to, 66, 67, 80.
- OGDEN, MERTON MILES.—Elected a Junior, 594.
- OLDS, THOMAS HARTMAN.—Elected an Associate Member, 289.
- OLMSTED, HERBERT WARNER.—Elected an Associate Member, 3.
- OLSEN, OLE KJELD.—Elected an Associate Member, 593.
- ORBECK, MARTIN J.—Elected a Junior, 361.
- OSBORN, FRANK EDGAR.—Elected an Associate Member, 3.
- OSBORN, KENNETH HOWARD.—Transferred to Grade of Associate Member, 181.
- OSBORNE, CLARENCE BRISTOL.—Elected an Associate, 593.
- OSBORNE, HERBERT.—Elected an Associate Member, 542.
- OSGOOD, MANLEY.—Elected a Junior, 4.
- O'SHAUGHNESSY, M. M.—Awarded the James Laurie Prize, 5, 71, 109.
- OTT, SAMUEL JACOB.—Transferred to Grade of Member, 233.
- OWEN, JAMES.—Discussion by, 180, 288.
- OWEN, KENNETH DUNHAM.—Transferred to Grade of Associate Member, 234.
- PAGE, L. W.—Appointed a Delegate to American Road Congress, 595.
- "Painting Structural Steel: The Present Situation," presented and discussed, 2.
- PALMER, CHARLES WALTER.—Transferred to Grade of Member, 544.
- PALMER, GEORGE FREDERICK.—Elected a Member, 360.
- PARSONS, H. DE B.—Address by, 180, 287.
- PATTERSON, ROBERT YOUNGMAN.—Transferred to Grade of Member, 594.
- PAYNE, JAMES ELWOOD.—Transferred to Grade of Associate Member, 4.
- PEALER, THOMAS.—Elected an Associate Member, 653.
- PEARSON, HARRY BROWNLEY, JR.—Elected a Junior, 594.
- PECK, LEON FRIEND.—Elected an Associate Member, 542.
- PEMOFF, J. J.—Discussion by, 356.
- "Penstock and Surge-Tank Problems," presented and discussed, 706.
- PERRY, LYNN ELWOOD.—Transferred to Grade of Associate Member, 654.
- PETERS, JOHN MARVIN.—Death announced, 541.
- PETERSON, GARFIELD CHRISTIAN.—Transferred to Grade of Associate Member, 76.
- PETERSON, PETER ALEXANDER.—Death announced, 76.
- PETINOT, N.—Discussion by, 287.
- PETIT, CHARLES WESLEY.—Elected an Associate Member, 289.
- PFEIFFER, ALOIS JOHN JOSEPH.—Elected an Associate Member, 360.
- Philadelphia Association of Members of the American Society of Civil Engineers.—Abstract of Minutes of Meetings of, 296, 714, 715.
- PHILIPS, GEORGE WASHINGTON.—Elected an Associate Member, 74.
- PHILLIPS, ARTHUR LOUIS.—Death announced, 592.
- PHILLIPS, ASA E.—Appointed Teller to Canvass Ballot for Officers, 65, 78.
- PHILLIPS, CLIFFORD FRENCH.—Transferred to Grade of Associate Member, 181.

PHILLIPS.

- PHILLIPS, H. C.—Discussion by, 182.
 PICKETT, WILLIAM DOUGLAS.—Elected an Honorary Member, 235.
 PIEPMEIER, BION HARMAN.—Elected an Associate Member, 289.
 PIERCE, HENRY TYLER.—Elected an Associate Member, 653.
 PILLET, FREDERICK FISCHER.—Transferred to Grade of Associate Member, 594.
 PILLSBURY, CHARLES LUCIEN.—Elected a Member, 652.
 PILLSBURY, GEORGE BIGELOW.—Transferred to Grade of Member, 362; Discussion by, 539.
 PINSON, JOSIAH FOWLER.—Elected a Member, 360.
 PIRNIE, HERBERT MALCOLM.—Elected a Junior, 75.
 POLK, A. C.—Discussion by, 652.
 POLK, A. C., and E. L. SAYERS.—Paper by, 652.
 POLK, W. ANDERSON.—On Committee of Arrangements for Annual Convention, 132.
 POND, FREDERICK HENRY.—Elected an Associate Member, 289.
 POPE, JAMES BOND.—Elected a Member, 74.
 PORTER, RALPH WALDO.—Elected an Associate Member, 707.
 Portland, Ore., Association of Members of the American Society of Civil Engineers.—Abstract of Minutes of Meetings of, 135, 242, 297, 428, 659.
 POST, ADOLPH JOSEPH.—Elected a Junior, 290.
 POTTER, ALEXANDER.—Discussion by, 73, 651.
 POWRIE, CHARLES ROLLO.—Elected an Associate Member, 3.
 PRACY, GEORGE WESLEY.—Elected an Associate Member, 653.
 PRATT, RICHARD ALEXANDER.—Elected an Associate Member, 360.
 PRATT, WALTER MITCHELL.—Elected an Associate Member, 74.
 PRESTON, JAMES H.—Address by, 357, 368.
 PRICE, DONALD DOUGLAS.—Transferred to Grade of Associate Member, 544.
 PRICE, JOSEPH PAUL.—Elected an Associate Member, 653.
 PRINGLE, HERBERT LUTHER.—Elected an Associate Member, 542.

PRIOR.

- PRIOR, JOSEPH HENRY.—Elected a Member, 542.
 PRITCHARD, PHILIP MORRIS.—Death announced, 541.
 Prizes, Committee to Recommend the Award of.—Report of, 5, 70, 108.
 Public Utilities, Special Committee on Valuation of.—Progress Report of, 69, 98; Resolutions Relative to Progress Report of, 69, 98; Minutes of Special Meetings for Discussion of Report of, 181, 234.
 Publication Committee.—Appointment of, 76; Report of, Relative to Cost of, and Contract for, Printing, 236.
 Publications, Use of Thin Paper for.—Report of Secretary on, 358, 394, 423.
 PUFF, CHARLES FREDERICK, JR.—Elected an Associate Member, 232.
 PUGH, MARSHALL R.—Paper by, 592; Discussion by, 592.
 PULLAR, H. B.—Discussion by, 73.
 PURVER, GEORGE M.—Discussion by, 592.
 PYZEL, EWALD.—Elected an Associate Member, 653.
 RABINOWITZ, LOUIS.—Elected an Associate Member, 360.
 RAMSBOTHAM, JOSHUA FIELDEN.—Transferred to Grade of Member, 233.
 RANDOLPH, JAMES ROBBINS.—Elected a Junior, 653.
 RANDES, HAROLD A.—Paper by, 175.
 RAPELLI-OLIVER, GEORGE WASHINGTON.—Elected a Junior, 181.
 RATHBUN, JOHN CHARLES.—Transferred to Grade of Associate Member, 291.
 RAY, G. J.—On Special Committee to Report on Stresses in Railroad Track, 2, 6, 71, 109.
 REA, SAMUEL.—On Committee on Alfred Noble Memorial, 364.
 REDDICK, JOHN BURDICK.—Elected an Associate Member, 542.
 REED, HENRY BUDD.—Elected a Member, 360.
 REED, HOWARD S.—Correspondence by, Relative to Proposed Code of Ethics, 358, 377.

REGISTER.

- REGISTER, HENRY SLICER, JR.—Transferred to Grade of Associate Member, 181.
- REIDPATH, ELBERT HUME.—Elected a Junior, 543.
- "Reinforced Concrete Docks: Foreign and American Structures; Failures, Costs, and General Considerations," presented and discussed, 355.
- "Reinforced Concrete Reservoir and Coagulation Plant at St. Louis, Mo.," presented and discussed, 73.
- REINHARDT, WILLIAM.—Elected an Associate Member, 707.
- REINHART, MARTIN JOHN.—Elected an Associate Member, 233.
- REMINGTON, JOHN CLEMENT, JR.—Elected an Associate Member, 707.
- RENNELL, HENRY HURD.—Transferred to Grade of Associate Member, 362.
- RENSHAW, ROBERT HENRY, JR.—Elected an Associate Member, 3.
- Report of Board of Direction, 11, 65, 78.
- Report of Board of Direction Relative to Appointment of an Arbitration Board, 71, 111.
- Report of Board of Direction Relative to Payment of Expenses of Special Committees, 237.
- Report of Board of Direction Relative to Payment of Mileage of Directors Attending Annual Conventions, 235.
- Report of Board of Direction Relative to Proposed Alfred Noble Memorial, 363.
- Report of Committee on Concrete and Reinforced Concrete, 70, 105; Resolution Relative to the, 70, 106.
- Report of Committee on Engineering Education, 70, 106.
- Report of Committee on Floods and Flood Prevention, 359, 397.
- Report of Committee on Proposed Amendments to the Constitution, 66, 79.
- Report of Committee on Publications Relative to Cost of, and Contract for, Printing, 236.
- Report of Committee on Steel Columns and Struts, 70, 103.

REPORT.

- Report of Committee on Valuation of Public Utilities, 69, 98; Resolutions Relative to, 69, 98; Minutes of Special Meetings for Discussion of, 181, 234.
- Report of Committee to Codify Present Practice on the Bearing Value of Soils for Foundations, etc., 70, 104.
- Report of Committee to Investigate Conditions of Employment of, and Compensation of, Civil Engineers, 70, 103; Resolution Relative to the, 70, 103.
- Report of Committee to Recommend the Award of Prizes, 5, 70, 108.
- Report of Committee to Report on Materials for Road Construction, 69, 101; Resolutions Relative to the, 69, 101; Special Meeting Authorized for Discussion of, 595.
- Report of Secretary, 20, 65, 78.
- Report of Secretary on Use of Thin Paper for Publications, 358, 394, 423.
- Report of Tellers Appointed to Canvass Ballots on Proposed Amendments to Constitution, 179.
- Report of Tellers Appointed to Canvass Preliminary Suggestions for Nominating Committee, 655.
- Report of Tellers on Vote for Officers, 72, 115.
- Report of Treasurer, 22, 65, 78.
- "Report on a Series of Tests on Concrete Columns Reinforced with a Spiral of Steel," presented and discussed, 231.
- REQUARDT, GUSTAV JAEGER.—Elected an Associate Member, 180.
- Resolution of Board of Direction on Death of Alfred Noble, 364.
- Resolution of Board of Direction on Death of Emil Gerber, 364.
- Resolution of Board of Direction Relative to Appointment of Subcommittee to Consider and Report on Work of Special Committees, 292.
- Resolution of Board of Direction Relative to Appropriation for Special Committees, 292.
- Resolution of Board of Direction Relative to Mileage Allowance to Presidents of Local Associations at New York Meeting, 709.

RESOLUTION.

- Resolution of Board of Direction Relative to Payment of Mileage of Directors Attending Annual Meetings, 77.
- Resolution of Board of Direction Relative to Use of Society's Mailing List, 236.
- Resolution of General Conference Committee of National Engineering Societies Relative to Appointment of an Engineer Member of the Interstate Commerce Commission, 77.
- Resolution of General Conference Committee of National Engineering Societies Relative to Appointment of Engineers on State and Municipal Commissions and Departments, 77.
- Resolution Relative to Adoption of Proposed Code of Ethics, 358, 389.
- Resolution Relative to Progress Report of Special Committee on Concrete and Reinforced Concrete, 70, 106.
- Resolution Relative to Progress Report of Special Committee to Investigate Conditions of Employment of, and Compensation of, Civil Engineers, 70, 103.
- Resolution Relative to Regulation of Engineering Practice, 71, 113.
- Resolution Relative to Secret Ballot for Nominating Committee, 358, 391.
- Resolutions of Board of Direction Relative to Duties of Consulting Engineers, 365.
- Resolutions of Board of Direction Relative to Election of Nominating Committee, 236.
- Resolutions of Board of Direction Relative to Enlarging the Scope and Work of Special Committees, 235.
- Resolutions of Board of Direction Relative to Increasing the Number of Geographical Districts, 366.
- Resolutions Relative to Progress Report of Special Committee to Report on Materials for Road Construction, 69, 101.
- Resolutions Relative to Progress Report of Special Committee on Valuation of Public Utilities, 69, 98.

REYNOLDS.

- REYNOLDS, WILLIAM LEROY.—Elected an Associate Member, 74.
- RHEA, FRANK.—Elected a Member, 288.
- RHENISCH, ARTHUR RUDOLPH.—Elected an Associate Member, 289.
- RHODES, A. T.—Discussion by, 72, 73.
- RHYNE, JAMES RUSH.—Elected an Associate Member, 289.
- RICE, PHILIP DURKEE.—Elected an Associate Member, 707.
- RICHARDS, ARTHUR.—Transferred to Grade of Associate Member, 544.
- RICHARDS, GEORGE WILLIAM.—Elected a Junior, 543.
- RICHARDSON, ROBERT EARL.—Elected an Associate Member, 707.
- RICHE, CHARLES SWIFT.—Elected a Member, 542.
- RICHMOND, HENRY A.—Death announced, 2.
- RICKER, G. A.—Discussion by, 72, 73.
- RICKETTS, L. D.—Correspondence by, Relative to Proposed Code of Ethics, 358, 374.
- RICKON, FREDERIC JOHN HENRY.—Death announced, 654.
- RIEGLER, LOUIS JOHN.—Transferred to Grade of Member, 362.
- RIEGNER, WALLACE BERKLEY.—Death announced, 76.
- RIGGS, HENRY E.—On Special Committee on Valuation of Public Utilities, 358, 366, 396.
- RIGHTS, LEWIS D.—Discussion by, 2; On Nominating Committee, 69, 96.
- RIMBAULT, EMILE LEONARD, JR.—Elected a Junior, 233.
- RIPPEY, S. HOWARD.—Discussion by, 175.
- "Road Construction and Maintenance."—Minutes of Special Meetings for Topical Discussion on, 72, 73; Discussion on, 72, 73.
- Road Construction, Special Committee to Report on Materials for.—Additional Members Appointed, 5, 77; Progress Report of, 69, 101; Resolutions Relative to Progress Report of, 69, 101; Change of Title Announced, 365; Special Meeting Authorized for Discussion of Report of, 595.
- ROBERTS, BURKE BROCKWAY.—Elected a Junior, 707.

ROBERTS.

- ROBERTS, VINCENT.—Transferred to Grade of Associate Member, 708.
- ROBSON, F. T.—Discussion by, 652.
- ROCKHOLD, JOHN ELLSWORTH. — Elected an Associate Member, 593.
- ROOT, CHARLES WILBER.—Elected a Member, 652.
- ROPES, ELIHU HARRISON.—Elected an Associate Member, 360.
- ROSS, THOMAS ALEXANDER.—Transferred to Grade of Member, 594.
- ROSSER, THOMAS LAFAYETTE, JR.—Elected an Associate, 653.
- ROWLAND, OTIS FLETCHER.—Elected a Member, 542.
- Rowland Prize.—Award of, 5, 70, 109.
- RUGGLES, CHARLES HERMAN. — Elected an Associate Member, 542.
- SABIN, A. H.—Paper by, 2; Discussion by, 2.
- SACKETT, ARTHUR JOHNSON.—Transferred to Grade of Associate Member, 654.
- SADLER, WALTER CLIFFORD.—Elected a Junior, 75.
- St. JOHN, WALTER SHERMAN.—Transferred to Grade of Associate Member, 654.
- St. Louis Association of Members of the American Society of Civil Engineers. — Constitution Approved, 600.
- SAMPSON, FRANK WATKINS.—Elected an Associate Member, 360.
- San Francisco Association of Members of the American Society of Civil Engineers.—Abstract of Minutes of Meetings of, 185, 295, 425, 658.
- SANSOM, FRANK W.—Elected an Associate Member, 3.
- SARGENT, EDWARD HAYNES.—Elected an Associate Member, 3.
- SARGENT, PAUL D.—Discussion by, 72, 73.
- SAUNDERS, WILLIAM L.—On Joint Reception Committee for International Engineering Congress, 358, 366, 396.
- SAWTELL, HARRY EDGAR.—Elected a Member, 542.

SAWYER.

- SAWYER, W. C.—Letter from, Relative to Local Associations of Members of the American Society of Civil Engineers, 71, 112.
- SAYER, DANIEL BELL.—Elected an Associate Member, 180.
- SAYERS, EDWARD LAWRENCE.—Transferred to Grade of Member, 362.
- SAYERS, EDWARD LAWRENCE, and A. C. POLK.—Paper by, 652.
- SCALES, GEORGE CHESTER.—Elected an Associate Member, 593.
- SCHAEFER, HERMANN, and G. FRANZE. —Discussion by, 651.
- SCHANCK, FRANCIS RABER.—Elected a Member, 360.
- SCHENK, ERNEST EUGENE.—Elected an Associate Member, 361.
- SCHICK, HERMAN SCHOVE.—Elected an Associate Member, 289.
- SCHNECK, EMIL MUNGER.—Elected an Associate Member, 3.
- SCHOCK, DANIEL ROLLAND.—Elected an Associate Member, 542.
- SCHREIBER, H. V.—Presents Paper and Discussions, 175; Discussion by, 175.
- SCHREIBER, J. M.—Discussion by, 234.
- SCHRYVER, HOWARD FRENCH.—Elected an Associate Member, 180.
- SCHUSSLER, HERMAN FREDERICK AUGUST.—Elected a Member, 74.
- SCHUTT, ALFRED GEORGE.—Elected an Associate Member, 543.
- SCHUYLER, WALTER WESLEY. — Elected a Junior, 290.
- SCHWENDENER, KARL DEWITT. — Elected an Associate Member, 233.
- SCOTT, HAROLD HERSMAN.—Elected a Junior, 543.
- SCUDDER, SAMUEL OSBORNE.—Elected an Associate Member, 543.
- SEAGE, CLARENCE EDMUND.—Elected an Associate Member, 233.
- Seattle Association of Members of the American Society of Civil Engineers.—Abstract of Minutes of Meetings of, 660.
- Secretary.—Report of, 20, 65, 78; Election of, 76; Report of, On Use of Thin Paper for Publications, 358, 394, 423.
- SEDDON, WILLIAM LITTLE.—Elected a Member, 288.
- SEE, GEORGE CORLISS.—Transferred to Grade of Associate Member, 544.

SEIB.

- SEIB, CHARLES BACH.—Elected a Junior, 543.
- SHARPLES, PHILIP P.—Discussion by, 73.
- SHAW, GRANVILLE W.—Correspondence by, Relative to Proposed Code of Ethics, 358, 376.
- SHAW, WALTER FARNSBY.—Transferred to Grade of Associate Member, 291.
- SHELLEY, HENRY THOMAS.—Elected a Member, 288.
- SHEPLEY, CHARLES ROGERS.—Elected a Member, 3.
- SHERMAN, CHARLES W.—Discussion by, 592.
- SHERRON, GEORGE AUSTIN.—Elected an Associate Member, 543.
- SHERWOOD, NIAL.—Elected an Associate Member, 289.
- SHIPLEY, HENRY FRANKLIN.—Elected a Member, 592.
- SHIRLEY, JOSEPH W.—Address by, 359, 404.
- SHOUP, STEPHEN ELLIOTT.—Elected an Associate Member, 180.
- SICKLES, RAYMOND.—Elected an Associate Member, 543.
- SIDENIUS, HARRY.—Transferred to Grade of Member, 362.
- SILLIMAN, JOSEPH WARREN.—Elected an Associate Member, 543.
- SISSON, FREDERICK PARDON.—Elected an Associate Member, 289.
- SKINNER, F. W.—Discussion by, 287, 288.
- SKUSE, WALDO WEBSTER.—Elected a Junior, 361.
- SLATER, WILLIS APPLEFORD.—Elected an Associate Member, 361.
- SLOAN, SAMUEL ALAN.—Elected an Associate Member, 233.
- SLOCUM, HARRY SPENCER.—Transferred to Grade of Member, 362.
- SMALL, CHARLES CHURCHILL.—Elected a Member, 3.
- SMITH, AUGUSTUS.—Letter from, Relative to Appointment of an Arbitration Board, 71, 109.
- SMITH, CHESTER ALEXANDER.—Transferred to Grade of Member, 181.
- SMITH, CLAIRE HOWLAND WALLACE.—Transferred to Grade of Associate Member, 594.
- SMITH, EARL AUDIE.—Elected a Junior, 361.

SMITH.

- SMITH, EDWARD KING.—Elected a Junior, 653.
- SMITH, FRANCIS NOBLE.—Elected an Associate Member, 593.
- SMITH, HARRISON.—Elected an Associate Member, 74.
- SMITH, J. WALDO.—Presides at Meeting, 1, 2, 181, 287, 651, 705; On Library Committee, 76.
- SMITH, LANDON GARLAND.—Elected an Associate Member, 543.
- SMITH, LAYTON F.—On Committee of Arrangements for Annual Convention, 132.
- SMITH, MERRITT H.—Appointed Teller to Canvass Ballot for Officers, 65, 78.
- SMITH, WALTER LYNES.—Elected an Associate Member, 74.
- SMITH, WILLARD ADELBERT.—Elected an Associate, 543.
- SMITH, WILLIAM WOOD.—Elected an Associate Member, 289.
- SMITH, WILSON FITCH.—Discussion by, 175.
- SNOW, J. P.—Discussion by, 234.
- SNYDER, GEORGE DUNCAN.—Paper by, 591.
- SNYDER, HUBERT EARL.—Transferred to Grade of Associate Member, 4.
- SOEST, HUGO CONRAD.—Transferred to Grade of Associate Member, 544.
- Soils for Foundations, etc., Special Committee to Codify Present Practice on the Bearing Value of.—Progress Report of, 70, 104.
- SOLA, FRANCISCO JOSÉ DE.—Elected an Associate Member, 361.
- "Some Observations on Pavements in Foreign Cities," Address on, 73.
- "Some Principles Relating to the Administration of Streams," presented and discussed, 539.
- SOUTHER, MORTON EDWIN.—Elected a Junior, 75.
- Southern California Association of Members of the American Society of Civil Engineers.—Abstract of Minutes of Meetings of, 135, 298.
- SOUTHWORTH, JAY LA DREW.—Elected an Associate Member, 707.
- SPANGLER, LYSLE ENOCH.—Elected a Junior, 290.
- SPAULDING, RALPH EDGAR.—Transferred to Grade of Associate Member, 234.

SPECIAL COMMITTEES.

Special Committees. *See* Committees, Special.

SPENCER, CHARLES HENRY.—Elected a Member, 542.

SPENCER, HERBERT.—Discussion by, 73.

SPENCER, THEODORE NELSON.—Transferred to Grade of Member, 181.

SPIKER, JACOB STEPHEN.—Elected a Member, 74.

SPIKER, WILLIAM CLARE.—Transferred to Grade of Member, 4.

SPINKS, JOHN DAVIDSON.—Elected an Associate Member, 593.

SPINOSA, ARTHUR VALL.—Elected an Associate Member, 543.

SPIVEY, WILLIS TILLMAN.—Elected an Associate Member, 707.

Spokane Association of Members of the American Society of Civil Engineers.—Constitution Approved, 235.

SPRAGUE, EDWIN LORING, JR.—Transferred to Grade of Associate Member, 76.

SQUIRE, FRANK CARTER.—Elected an Associate Member, 593.

STAFFORD, FREDERICK DIAL.—Elected an Associate Member, 3.

STANTON, FRED CASWELL.—Transferred to Grade of Member, 4.

STARK, JOHN VASSAR.—Elected an Associate Member, 593.

STARRETT, WILLIAM AIKEN.—Elected an Associate, 593.

STEARNS, FREDERIC P.—Presents Progress Report of Special Committee on Valuation of Public Utilities, 69, 98; Motion by, Relative to Progress Report of Committee on Valuation of Public Utilities, 69, 98; Discussion by, 182, 234.

Steel Columns and Struts, Special Committee on.—Progress Report of, 70, 103.

STEERE, EDMUND JOB.—Death announced, 708.

STEEVES, CLARENCE McNAUGHTON.—Elected an Associate Member, 3.

STEINBRUCH, WALTER.—Elected a Junior, 290.

STERN, E. W.—Discussion by, 356.

STEVENS, CHARLES HENRY.—Elected an Associate Member, 289.

STEVENS, HAROLD CONVERSE.—Transferred to Grade of Member, 362.

STEVENS.

STEVENS, HAROLD CROSBY.—Elected a Junior, 4.

STEVENS, P. E.—Correspondence by, Relative to Proposed Code of Ethics, 358, 376.

STEVENS, WILLIAM WENTWORTH.—Elected an Associate Member, 361.

STEVENSON, W. L.—Discussion by, 651.

STEWART, SPENCER J.—Discussion by, 180.

STILES, ALBERT IRVINE.—Transferred to Grade of Associate Member, 4.

STILES, ARTHUR ALVORD.—Elected a Member, 180.

STILES, EDWIN MILO.—Elected a Junior, 653.

STINCHCOMB, WILLIAM ALBERT.—Elected a Member, 360.

STIRLING, VINCENT REYNOLDS.—Transferred to Grade of Associate Member, 291.

STOBO, JOHN BRUCE.—Elected an Associate Member, 593.

STOCKER, LESLIE WRIGHTSON.—Elected an Associate Member, 361.

STOCKWELL, RUPERT KENNEDY.—Elected an Associate Member, 361.

STONE, H. M.—Discussion by, 234.

STONE, WILLIAM GREENE.—Elected an Associate, 707.

"Storage to be Provided in Impounding Reservoirs for Municipal Water Supplies," presented and discussed, 1.

STORER, STACY STEWART.—Transferred to Grade of Member, 290.

STOREY, FRANKLIN STEVENS.—Elected an Associate Member, 289.

STORES, JOHN WILLIAMS.—Elected a Member, 74.

STOW, FREDERICK S.—Appointed Teller to Canvass Ballot for Officers, 65, 78.

STRACHAN, R. C.—Discussion by, 592.

STREET, JOHN ZADOK.—Elected a Junior, 543.

Stresses in Railroad Track, Special Committee to Report on.—Appointment of, 2, 6, 71, 109.

STUART, FRANCIS LEE.—On Committee of Arrangements for Annual Convention, 132; Presides at Meeting, 357, 368.

STUART.

- STUART, JOHN CHARLES KEITH.—Elected an Associate Member, 543.
- STURDEVANT, JAMES H.—Discussion by, 73.
- "Subaqueous Highway Tunnels," presented and discussed, 591.
- SULLIVAN, JOHN FRANCIS.—Transferred to Grade of Member, 75.
- SULLIVAN, MAURICE JOSEPH.—Elected an Associate Member, 180.
- SUN, TAOUH CLARANCE.—Transferred to Grade of Associate Member, 708.
- SUMMERS, RICHARD ELVIN JEWELL.—Elected a Junior, 653.
- SWAIN, GEORGE F.—Presides at Meeting, 65, 78; Discussion by, 234; On Sub-Committee of Board of Direction to Consider and Report on Work of Special Committees, 292.
- SWARTZ, LEON EMERSON.—Elected a Junior, 233.
- SYLLIAASEN, MELVIN OLIVER.—Elected a Junior, 75.
- TABER, EDWARD GRAY.—Elected a Member, 542.
- TAFT, HARRISON S.—Paper by, 355.
- TALBERT, CHARLES MASON.—Elected a Member, 180.
- TALBOT, A. N.—On Special Committee to Report on Stresses in Railroad Track, 2, 6, 71, 109.
- TALBOT, KENNETH HAMMET.—Elected a Junior, 594.
- TAMMEN, HENRY CASPER.—Elected an Associate Member, 180.
- TATUM, ROBERT LEE.—Transferred to Grade of Associate Member, 654.
- TAY, SAMUEL WRIGHT.—Elected an Associate Member, 361.
- TAYLOR, LUCIAN ARNOLD.—Death announced, 708.
- TAYLOR, ROY.—Discussion by, 706.
- TAYLOR, THOMAS U.—Discussion by, 2; On Nominating Committee, 69, 97.
- TEETER, EARLE EVERETT.—Elected an Associate Member, 3.
- Tellers.—Appointed to Canvass Ballots for Election of Officers, 65, 78; Report of, On Vote for Officers, 72, 115; Appointed to Canvass Ballots for Proposed

TEN HAGEN.

- Amendment to Constitution, 176; Report of, On Vote on Proposed Amendments to Constitution, 179; Appointed to Canvass Ballot on Proposed Code of Ethics, 540; Report of, On Vote on Proposed Code of Ethics, 540; Appointed to Canvass Preliminary and Final Suggestions for Nominating Committee, 655; Report of, On Preliminary Suggestions for Nominating Committee, 655.
- TEN HAGEN, HENRY.—Elected a Junior, 75.
- Texas Association of Members of the American Society of Civil Engineers.—Constitution Approved, 5; Abstract of Minutes of Meeting of, 662.
- "The Clarification of Sewage by Fine Screens," presented and discussed, 651.
- "The Constant-Angle Arch Dam," presented and discussed, 591.
- "The Construction of the Klondike Pipe Line," presented and discussed, 539.
- "The Depreciation of Public Utility Properties as Affecting Their Valuation and Fair Return," presented and discussed, 1.
- "The Design and Construction of Four Reinforced Concrete Viaducts at Fort Worth, Texas," presented, 705.
- "The Determination of Safe Yield of Underground Reservoirs of the Closed-Basin Type," presented and discussed, 288.
- "The Differential Surge Tank," presented and discussed, 706.
- "The Gauge of Railways, with Particular Reference to Those of Southern South America," presented and discussed, 232.
- "The Laramie-Poudre Tunnel," awarded the Thomas Fitch Rowland Prize, 5, 70, 109.
- "The Lock 12 Development of the Alabama Power Company, Coosa River, Alabama," presented and discussed, 652.
- "The Possibilities in Bridge Construction by the Use of High-Alloy Steels," presented and discussed, 287.

THE.

- "The Problem of the Lower West Side Manhattan Water-Front of the Port of New York," awarded the J. James R. Croes Medal, 5, 70, 109.
- "The Valuation of Public Utility Property," presented and discussed, 705.
- THOMAS, CHARLES RANDOLPH, 3D.—Elected a Junior, 233.
- THOMAS, EDGAR BRANSON.—Transferred to Grade of Member, 362.
- THOMAS, RALEIGH COLSTON.—Elected a Member, 360.
- THOMAS, RALPH DANFORD.—Transferred to Grade of Member, 708.
- THOMES, E. H.—Discussion by, 73.
- THOMPSON, ARTHUR FREDERICK BURGAN.—Elected a Junior, 653.
- THOMPSON, FRED.—Death announced, 291.
- THOMPSON, MORRIS.—Elected an Associate Member, 707.
- THOMPSON, WILLIAM GEORGE BOLAND.—Elected an Associate Member, 74.
- THOMSEN, SAMUEL LOCKE.—Elected a Junior, 594.
- THOMSON, LESSLIE RIELLE.—Elected an Associate Member, 707.
- THOMSON, T. KENNARD.—Presides at Meeting, 73, 175, 231, 355, 591; On Library Committee, 76; Discussion by, 234, 288.
- THOMSON, WILLIAM CHASE.—Elected a Member, 541.
- THORNTON, EDMUND ABIEL.—Elected an Associate Member, 653.
- TILDEN, CHARLES J.—On Special Committee to Report on Materials for Road Construction, 5, 77.
- TILLINGHAST, FREDERICK HOWARD.—Transferred to Grade of Member, 233.
- TILLSON, GEORGE W.—On Special Committee to Report on Materials for Road Construction, 5, 77; Discussion by, 73; Address by, 73.
- TINTORER Y GIBERGA, JOSEPH.—Death announced, 291.
- TIPPET, HENRY JACKSON.—Elected an Associate Member, 180.
- TITUS, WILLIAM JACEY.—Elected an Associate Member, 707.

TOCH.

- TOCH, MAXIMILIAN.—Discussion by, 2.
- TOLMAN, EDWARD MAYO.—Elected a Junior, 543.
- TOMBO, C.—Presents Discussion, 234.
- TOMLINES, THOMAS LEOPOLD.—Elected an Associate Member, 74.
- TORNQUIST, CHARLES HERMAN.—Elected an Associate Member, 361.
- TORPEN, ALEX MAGNUS.—Elected an Associate Member, 593.
- TORRALBAS, RAFAEL JOAQUIN.—Transferred to Grade of Associate Member, 362.
- TOWLE, FOSTER.—Transferred to Grade of Associate Member, 76.
- TOWNSEND, C. McD.—On Special Committee on Floods and Flood Prevention, 235; Presents Progress Report of Special Committee on Floods and Flood Prevention, 359, 397.
- TOWNSEND, FRANK MARTIN.—Elected a Junior, 75.
- TRAUTWINE, JOHN C., JR.—Discussion by, 72, 706.
- Treasurer.—Report of, 22, 65, 78.
- TREFETHEN, ERNEST MILTON.—Elected an Associate Member, 74.
- TREVARTHEN, DWIGHT CUTLER.—Elected an Associate Member, 361.
- TRIBUS, LOUIS L.—Correspondence by, Relative to Proposed Code of Ethics, 358, 376; Discussion by, 706.
- TROUT, ALEXANDER LINN.—Elected an Associate Member, 233.
- TRUE, HENRY ALFONSO, JR.—Elected an Associate Member, 653.
- TUFTS, WILLIAM.—Transferred to Grade of Associate Member, 654.
- TURNEAURE, FREDERICK E.—On Special Committee to Report on Stresses in Railroad Track, 2, 6, 71, 109; On Nominating Committee, 69, 96.
- TURNER, DOUGLAS BARLOW.—Elected an Associate Member, 543.
- TURNER, HOWARD MOORE.—Elected an Associate Member, 233.
- TURNER, NATHANIEL.—Death announced, 356.
- TUTTLE, ARTHUR S.—Elected a Director, 72, 116; On Publication Com-

UNGER.

- mittee, 76; Appointed Teller to Canvass Preliminary and Final Suggestions for Nominating Committee, 655.
- UNGER, WILLIAM LOUIS.—Elected a Junior, 594.
- VAIL, EPHRAIM MARTIN.—Elected an Associate Member, 543.
- VAN CLEVE, A. H.—Appointed Teller to Canvass Ballot for Officers, 65, 78; Appointed Teller to Canvass Ballot on Proposed Code of Ethics, 540.
- VANDEVANTER, ELLIOTT.—Transferred to Grade of Associate Member, 362.
- VAN DUYN, JOHN RALPH.—Elected a Member, 360.
- VAN PELT, SUTTON.—Transferred to Grade of Member, 362.
- VAN RENSSELAER, ALLEN.—Elected an Associate Member, 361.
- VAN WAGENEN, JAMES HUBERT.—Elected an Associate Member, 233.
- VENSANO, HENRY CHITTENDEN.—Discussion by, 1; Transferred to Grade of Member, 544.
- VERDERY, MARION JACKSON, JR.—Elected a Junior, 290.
- Vliegenthart, JOHANNES CORNELIS.—Death announced, 5.
- VOGEL, JOHN LEONARD.—Transferred to Grade of Associate Member, 291.
- VOLLMER, HENRY GODLOVE.—Elected an Associate Member, 361.
- VON BLÜCHER, CARL FELIX KILL-MAR.—Transferred to Grade of Associate Member, 708.
- VOORHEES, ISAAC SPURR.—Elected an Associate Member, 361.
- WACHTEL, LOUIS.—Transferred to Grade of Associate Member, 544.
- WADDELL, J. A. L.—Paper by, 287; Discussion by, 287.
- WADE, NEWTON BENJAMIN.—Transferred to Grade of Associate Member, 234.
- WADHAMS, JOSEPH PALMER.—Transferred to Grade of Member, 362.
- WAGNER, JOHN, JR.—Elected a Junior, 181.

WAGNER.

- WAGNER, LOUIS CLEMENT.—Elected a Junior, 707.
- WAGNER, SAMUEL TOBIAS.—Discussion by, 2, 592.
- WAITE, GUY B.—Paper by, 288; Discussion by, 288.
- WAITE, HENRY MATSON.—Elected a Member, 232.
- WALKER, HARRY BRUCE.—Elected an Associate Member, 361.
- WALKER, ROBERT YULE.—Elected a Junior, 290.
- WALLACE, JOHN F.—Elected Treasurer, 72, 116.
- WALLER, JOHN MALCOLM.—Elected a Junior, 707.
- WALTER, FRANK EDGAR.—Elected an Associate Member, 593.
- WARD, GEORGE SPARKMAN.—Elected a Junior, 233.
- WARD, HAROLD MANDEVILLE.—Elected a Member, 592.
- WARDWELL, RALPH WATTS.—Elected an Associate Member, 289.
- WARREN, H. A.—On Committee of Arrangements for Annual Convention, 132.
- WARREN, JAMES GOOLD.—Elected a Member, 360.
- WARREN, MINTON MACHADO.—Elected a Junior, 653; Paper by, 706; Discussion by, 706.
- WASHINGTON, WILLIAM DE HERTBURNE.—Discussion by, 72, 73; Death announced, 541.
- "Water Supply of the San Francisco-Oakland Metropolitan District," presented and discussed, 652.
- WATSON, DAVID MOWATT.—Elected a Junior, 653.
- WATSON, MARION ROSS.—Elected a Junior, 4.
- WATSON, PAUL ROBERT.—Elected an Associate Member, 653.
- WEBB, CHAUNCEY EARL.—Elected a Junior, 4.
- WEBER, DANIEL RISHEL.—Transferred to Grade of Associate Member, 594.
- WEBSTER, D. L.—Discussion by, 706.
- WEBSTER, ERNEST CHARLES.—Elected an Associate Member, 653.
- WEBSTER, MAURICE ANDERSON.—Elected a Junior, 544.
- WEEKS, GAYLORD D.—Elected an Associate Member, 361.

WEGMANN.

- WEGMANN, EDWARD.—Discussion by, 73, 591.
- WEIDMAN, JOHN HYNDS.—Elected an Associate Member, 543.
- WEINERT, FERDINAND JACOB FREDERICK.—Elected an Associate Member, 543.
- WELLES, THEODORE LADD, JR. — Elected a Junior, 75.
- WELLS, DALTON RUSSELL.—Elected a Member, 360.
- WELTY, HARRY TRUE.—Elected a Member, 180.
- WESTINGHOUSE, GEORGE.—Death announced, 231.
- WHEELER, WALTER S.—Discussion by, 539.
- WHELAN, CHARLES MALLORY. — Elected a Junior, 544.
- WHINERY, SAMUEL.—Discussion by, 73, 234.
- WHIPPLE, GEORGE C.—Discussion by, 651.
- WHIPPLE, ROBERT HOADLEY.—Elected an Associate Member, 74.
- WHITE, LAZARUS.—Discussion by, 175.
- WHITEAKER, ROBERT OLANDO. — Elected an Associate Member, 707.
- WHITED, WILLIS.—Discussion by, 72.
- WHITMAN, E. B.—On Committee of Arrangements for Annual Convention, 132; Address by, 359, 412.
- WHITMAN, RALPH.—Transferred to Grade of Member, 362.
- WHITMORE, CHARLES WILLIAM. — Elected a Junior, 75.
- WHITNEY, CHARLES SMITH.—Elected a Junior, 707.
- WHITNEY, FRANKLIN LEMUEL. — Elected an Associate Member, 653.
- WHITNEY, GILBERT CLINTON. — Elected an Associate Member, 361.
- WHITNEY, JOHN THAD.—Elected a Junior, 233.
- WHITTEMORE, LESLIE CLIFFORD. — Transferred to Grade of Associate Member, 362.
- WHITTET, RUFUS MASON.—Transferred to Grade of Member, 653.
- WIGGIN, ERNEST WOODBURY.—Transferred to Grade of Member, 708.

WIGTON.

- WIGTON, CHARLES BENSON.—Elected an Associate Member, 653.
- WILBER, JOSEPH FREMONT.—Elected an Associate Member, 707.
- WILDER, CLIFTON WHITE.—Transferred to Grade of Member, 362.
- WILEY, RODMAN.—Elected an Associate Member, 233.
- WILGUS, WILLIAM J.—Discussion by, 1; On Special Committee on Valuation of Public Utilities, 358, 366, 396.
- WILKES, JOHN.—Elected an Associate Member, 74.
- WILLARD, ERNST VICTOR.—Elected an Associate Member, 289.
- WILLARD, NORMAN RAND.—Transferred to Grade of Member, 362.
- WILLIAMS, GARDNER S. — Elected a Vice-President, 72, 116; On Publication Committee, 76; Presides at Meeting, 232, 234, 539, 652, 706; Discussion by, 234.
- WILLIAMS, MARSHALL. — Elected a Member, 360.
- WILLOUGHBY, J. E.—Discussion by, 1; On Special Committee to Report on Stresses in Railroad Track, 2, 6, 71, 109.
- WILSON, DEE LELAND.—Elected a Junior, 653.
- WILSON, JOHN RUSSELL.—Elected an Associate Member, 593.
- WILSON, ROGER AUSTIN.—Elected an Associate Member, 543.
- WILSON, ROY HEATH.—Elected an Associate Member, 653.
- WINDROW, ROLLEN JOE.—Elected an Associate Member, 543.
- WINSLOW, FREDERIC IRVING.—Elected a Member, 288.
- WINTERMUTE, FRED CLARK.—Transferred to Grade of Associate Member, 654.
- WISE, RUSSELL SHERWOOD.—Transferred to Grade of Associate Member, 544.
- WISKOCIL, CLEMENT TEHLE.—Elected a Junior, 75.
- WOEHLIN, GEORGE JOHN.—Elected an Associate Member, 233.
- WOERMANN, JOHN W.—On Nominating Committee, 69, 97.
- WOLFE, FRANK G.—Appointed Teller to Canvass Ballot for Officers, 65, 78.

WONG.

- WONG, JICK GAM.—Elected a Junior, 594.
 WOOD, BENJAMIN RUSSELL.—Elected an Associate Member, 233.
 WOOD, HENRY SHOTWELL.—Death announced, 2.
 WOODARD, WILKIE.—Transferred to Grade of Member, 290.
 WOODBURY, JOHN MCGAW.—Death announced, 592.
 WOODBURY, WILLIAM HOOK.—Elected a Member, 3.
 WOODHOUSE, SIDNEY JAMES.—Elected an Associate Member, 593.
 WOODLE, BERNON TISDALE.—Elected a Member, 544.
 WOODRUFF, CHARLES WILLIAM. — Transferred to Grade of Associate Member, 708.
 WOODWARD, GUY ERIC.—Elected an Associate Member, 289.
 WORCESTER, JOSEPH R.—On Nominating Committee, 69, 96; Discussion by, 288.
 WORTHINGTON, IRVING.—Elected a Member, 360.
 WRENTMORE, C. G., HUGH BRODIE, and C. O. CAREY.—Paper by, 231.

WRIGHT.

- WRIGHT, FRANCIS HERBERT.—Elected an Associate Member, 653.
 WRIGHT, JESSE BERNARD.—Elected an Associate Member, 653.
 WRIGHTSON, FRANCIS GERMAN, JR.—Elected an Associate Member, 543.
 WULZEN, RICHARD JOHN.—Elected an Member, 288.
 WULZEN, RICHARD JOHN.—Elected an Associate Member, 180.
 WUTH, BERTHOLD.—Elected an Associate Member, 233.
 YOST, DON LEON.—Elected a Junior, 594.
 YOUNG, FREDERICK CHARLES. — Elected an Associate Member, 74.
 YU, LIANG.—Elected a Junior, 4.
 ZABRISKIE, AARON J.—Death announced, 291.
 ZIEGLER, ADAM.—Elected an Associate Member, 707.

